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, por sus siglas en inglés)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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 DOMESTIC WASTEWATER/STORMWATER

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

FERMA Enterprises, LLC (CN606430676) proposes to operate Taylor Highway 95 North (RN112286893), a commercial and residential development. The facility will be located at on Highway 95 approximately 0.79 miles north of the intersection of Chandler Road and Highway 95, in Taylor, Williamson County, Texas 76574. New application to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.040 million gallons per day (MGD) via a subsurface drip irrigation system with a minimum area of 9.05 acres of public land access.

Discharges from the facility are expected to contain less than 100 mg/l biochemical oxygen demand (BOD), 100 mg/l total dissolved solids (TSS) and 126 E.Coli CFU MPN/ 100 ml. Domestic wastewater will be treated by activated sludge process followed by clarification and disinfection. Wastewater enters the treatment system into the primary settling tank, then equalization collection tank, then aeration basins, then clarifier, then effluent storage basins

before being routed to the subsurface drain fields. Waste sludge is removed directly from the sludge hoppers to the aerated sludge holding basin and hauled off site for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS /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.

FERMA Enterprises, LLC (CN606430676) propone operar Carretera Taylor 95 Norte (RN112286893), un desarrollo comercial y residencial. La instalación estará ubicada en la Carretera 95 aproximadamente a 0.79 millas al norte de la intersección de Chandler Road y la Carretera 95, en Taylor, Condado de Williamson, Texas 76574. Nueva solicitud para la eliminación de efluentes de aguas residuales domésticas tratadas a un caudal promedio diario que no exceda los 0.040 millones de galones por día (MGD) mediante un sistema de riego por goteo subterráneo con un área mínima de 9.05 acres de acceso a terrenos públicos.

Se espera que las descargas de la instalación contengan menos de 100 mg/l de demanda bioquímica de oxígeno (DBO), 100 mg/l de sólidos disueltos totales (SST) y 126 UFC de E. coli (NMP)/100 ml.. Las aguas residuales domésticas se tratarán mediante un proceso de lodos activados, seguido de clarificación y desinfección. están tratado por Las aguas residuales ingresan al sistema de tratamiento a través del tanque de sedimentación primario, luego al tanque de recolección de ecualización, luego a las piscinas de aireación, finalmente al clarificador y finalmente a las piscinas de almacenamiento de efluentes, antes de ser conducidas a los campos de drenaje subterráneo. Los lodos residuales se extraen directamente de las tolvas de lodos a la piscina de almacenamiento de lodos aireados y se transportan fuera del sitio para su posterior tratamiento y eliminación.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0016884001

APPLICATION. Ferma Enterprises, LLC, 1702 Intervail Drive, Austin, Texas 78746, which owns a commercial and residential development, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) Permit No. WQ0016884001 to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 40,000 gallons per day via area drip dispersal system on 9.05 acres of land. The facility and disposal area will be located approximately 0.79 miles north of the intersection of Chandler Road and Highway 95, near the city of Taylor, in Williamson County, Texas 76574. TCEQ received this application on September 18, 2025. The permit application will be available for viewing and copying at Taylor Public Library, circulation desk, 801 Vance Street, Taylor, Texas prior to the date this notice is published in the newspaper. The application is available for viewing and copying at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.42875,30.625611&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 Ferma Enterprises, LLC at the address stated above or by calling Mr. Robert H. Thonhoff H. Jr., P.E., WTC, Inc., at 512-328-6736.

Issuance Date: November 4, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0016884001

SOLICITUD. Ferma Enterprises, LLC, 1702 Intervail Drive, Austin, Texas 78746, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016884001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 40,0000 galones por día mediante un sistema de riego por goteo subterráneo con un área mínima de 9.05 acres de acceso a terrenos públicos. La planta y el área de disposición estarán ubicados la Carretera 95 aproximadamente a 0.79 millas al norte de la intersección de Chandler Road y la Carretera 95, en Taylor, en el Condado de Williamson, Texas 76574. La TCEQ recibió esta solicitud el 18 de septiembre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca pública de Taylor, Mostrador de Circulación, 801 Vance Street, Taylor, Condado de Williamson, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud está disponible para su visualización y copia en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.42875,30.625611&level=18

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

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

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

una audiencia administrativa de lo contencioso.

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

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

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

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

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

solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Ferma Enterprises, LLC a la dirección indicada arriba o llamando a Mr. Robert H. Thonhoff H. Jr., P.E., WTC, Inc al 512-328-6736.

Fecha de emisión: 4 de noviembre de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: FERMA Enterprises, LLC

PERMIT NUMBER (If new, leave blank): WQ00Click 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	☒	☐
Summary of Application (PLS)	☒	☐	Flow Diagram	☒	☐
Public Involvement Plan Form	☒	☐	Site Drawing	☒	☐
Technical Report 1.0	☒	☐	Original Photographs	☒	☐
Technical Report 1.1	☒	☐	Design Calculations	☒	☐
Worksheet 2.0	☐	☒	Solids Management Plan	☒	☐
Worksheet 2.1	☐	☒	Water Balance	☐	☒
Worksheet 3.0	☒	☐			
Worksheet 3.1	☐	☒			
Worksheet 3.2	☐	☒			
Worksheet 3.3	☒	☐			
Worksheet 4.0	☐	☒			
Worksheet 5.0	☐	☒			
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: 774027 and 774028

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

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

☐ Publicly Owned Domestic Wastewater

☒ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☐ Active ☒ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. **For existing permits**:

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?

FERMA Enterprises, 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: NA

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: Herzog, Peter

Title: Manager 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.

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 A

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Thonhoff, Robert H. Jr.

Title: Engineer Credential: P.E.

Organization Name: WTC, Inc.

Mailing Address: 1301 S Capital of Texas Hwy #A-236 City, State, Zip Code: Austin, TX 78746-6582

Phone No.: 512-328-6736 E-mail Address: bob.thonhoff@wtcinc.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms. Last Name, First Name: Harrington, Cari

Title: Consultant Credential: CPESC, CFM

Organization Name: H2O GeoSolutions, LLC

Mailing Address: PO Box 1446 City, State, Zip Code: Bastrop, TX 78602

Phone No.: 512-785-9801 E-mail Address: cari@h2ogeotx.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Thonhoff, Robert H. Jr.

Title: Engineer Credential: P.E.

Organization Name: WTC, Inc.

Mailing Address: 1301 S Capital of Texas Hwy #A-236 City, State, Zip Code: Austin, TX 78746-6582

Phone No.: 512-328-6736 E-mail Address: bob.thonhoff@wtcinc.com

B. Prefix: Mr. Last Name, First Name: Herzog, Peter

Title: Manager Credential: Click to enter text.

Organization Name: FERMA Enterprises, LLC

Mailing Address: 1702 Intervail Dr. City, State, Zip Code: Austin, TX 78746-7630

Phone No.: 512-940-4234 E-mail Address: peteherzog@hotmail.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: Herzog, Peter

Title: Manager Credential: Click to enter text.

Organization Name: FERMA Enterprises, LLC

Mailing Address: 1702 Intervail Dr. City, State, Zip Code: Austin, TX 78746-7630

Phone No.: 512-940-4234 E-mail Address: peteherzog@hotmail.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: Herzog, Peter

Title: Manager Credential: Click to enter text.

Organization Name: FERMA Enterprises, LLC

Mailing Address: 1702 Intervail Dr. City, State, Zip Code: Austin, TX 78746-7630

Phone No.: 512-940-4234 E-mail Address: peteherzog@hotmail.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Johnson, Barbara

Title: Consultant Credential: Click to enter text.

Organization Name: WTC, Inc.

Mailing Address: 1301 S Capital of Texas Hwy #A-236 City, State, Zip Code: Austin, TX 78746-6582

Phone No.: 512-328-6736 E-mail Address: barbara.johnson@wtcinc.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: Mr. Last Name, First Name: Thonhoff, Robert H. Jr.

Title: Engineer Credential: P.E.

Organization Name: WTC, Inc.

Mailing Address: 1301 S Capital of Texas Hwy Suite A-236 City, State, Zip Code: Austin, TX 78746-6582

Phone No.: 512-328-6736 E-mail Address: bob.thonhoff@wtcinc.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: Taylor Public Library

Location within the building: Circulation Desk

Physical Address of Building: 801 Vance St.

City: Taylor, TX 76574 County: Williamson

Contact (Last Name, First Name): Norris, Leah

Phone No.: 512-352-3434 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. Summary of Application in Plain Language Template

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

Attachment: B

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: B

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** NA

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):

Taylor Highway 95 North

C. Owner of treatment facility: FERMA Enterprises, LLC

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

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

Prefix: Mr. Last Name, First Name: Herzog, Peter

Title: Manager Credential: Click to enter text.

Organization Name: FERMA Enterprises, LLC

Mailing Address: 1702 Intervail Dr. City, State, Zip Code: Austin, TX 78746-7630

Phone No.: 512-940-4234 E-mail Address: peteherzog@hotmail.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: Mr. Last Name, First Name: Herzog, Peter

Title: Manager Credential: Click to enter text.

Organization Name: FERMA Enterprises, LLC

Mailing Address: 1702 Intervail Dr. City, State, Zip Code: Austin, TX 78746-7630

Phone No.: 512-940-4234 E-mail Address: peteherzog@hotmail.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:

New Permit: Williamson County CAD Parcel R018621. Located on Highway 95, 0.79 miles north of Chandler Road in Taylor, Texas. NE corner of property: 30.625611, -97.428752. WWTP is located at 30.624344°, -97.429363°

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:

New Permit: Not Applicable – no discharge

City nearest the outfall(s): NA

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

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: NA

Section 11. TLAP Disposal Information (Instructions Page 32)

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.

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 C

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: Not issued

Applicant: FERMA Enterprises, 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): Peter Herzog

Signatory title: Manager

Signature: _____ Date: 9/10/25

(Use blue ink)

Subscribed and Sworn to before me by the said PETER HERZOG

on this 10th day of SEPTEMBER, 20 25.

My commission expires on the 8th day of DECEMBER, 20 28.

Barbara Johnson

Notary Public

[SEAL]

TRAVIS

County, Texas

BARBARA JOHNSON
Notary Public, State of Texas
Comm. Expires 12-08-2028
Notary ID 125138849

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

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

D. Provide the source of the landowners' names and mailing addresses: Williamson County Central Appraisal District

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

☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

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

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

☒ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

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

☒ Yes ☐ No

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number: 774027
Trace Number: 582EA000675443
Date: 07/08/2025 11:53 AM
Payment Method: CC - Authorization 000000408G
Voucher Amount: $300.00
Fee Type: WW PERMIT - FACILITY WITH FLOW < .05 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor: CARI HARRINGTON
Actor Email: cari@h2ogeotx.com
IP: 97.228.196.49

Payment Contact Information

Name: BARBARA JOHNSON
Company: WTC INC
Address: 405 SW 1ST STREET, ANDREWS, TX 79714
Phone: 512-328-6736

Site Information

Site Name: FERMA ENTERPRISES
Site Location: ON HIGHWAY 95 0.79 MILES NORTH OF CHANDLER ROAD IN TAYLOR TEXAS

Customer Information

Customer Name: FERMA ENTERPRISES LLC
Customer Address: 1702 INTERVAIL DR, AUSTIN, TX 78746 7630

Other Information

Comments: New Permit

Close

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	774028
Trace Number:	582EA000675443
Date:	07/08/2025 11:53 AM
Payment Method:	CC - Authorization 000000408G
Voucher Amount:	$50.00
Fee Type:	30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor:	CARI HARRINGTON
Actor Email:	cari@h2ogeotx.com
IP:	97.228.196.49

Payment Contact Information

Name:	BARBARA JOHNSON
Company:	WTC INC
Address:	405 SW 1ST STREET, ANDREWS, TX 79714
Phone:	512-328-6736

Close

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: E

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Summary of Application (in Plain Language) ☒ Yes

ADMINISTRATIVE REPORT 1.0

Attachment A

Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN		**RN**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	7/11/2025

☒ 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:*
FERMA Enterprises, 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)*
0801120240		27-0165420	841513554

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:	1702 Intervail Dr.						
	City	Austin	**State**	TX	**ZIP**	78746	**ZIP + 4**	7630

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 940-4234		( ) -

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.)*

Taylor Highway 95 North

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City	Taylor	**State**	TX	**ZIP**		**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:	Located on Highway 95, 0.79 miles north of Chandler Road.

26. Nearest City	**State**	**Nearest ZIP Code**
Taylor	TX	

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:	30.625611		**28. Longitude (W) In Decimal:**	-97.428752	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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)
6512	6515	236220	531190

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

Commerical and Residental Development

34. Mailing Address:	**1702 Intervail Dr.**							
	City	**Austin**	**State**	**TX**	**ZIP**	**78746**	**ZIP + 4**	**7630**

35. E-Mail Address:	**peteherzog@hotmail.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 940-4234		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Robert H. Thonhoff, Jr. P.E.	**41. Title:**	Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 328-6736		( ) -	bob.thonhoff@wtcinc.com

SECTION V: Authorized Signature

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

Company:	FERMA Enterprises, LLC	**Job Title:**	Manager
Name *(In Print):*	Peter Herzog	**Phone:**	(512) 940- **4234**
Signature:		**Date:**	9/10/25

WTC
ENGINEERS | SURVEYORS

Andrews Office: 405 SW 1st Street, Andrews, TX 79714 • (432) 523- 2181
Austin Office: 1301 S. Capital of TX Hwy., Suite A-236, Austin, TX 78746 • (512) 328-6736
Texas Registered Engineering Firm F-2746 • Texas Registered Surveyor Firm #10079200

October 8, 2025

Paula Palmar
Texas Commission of Environmental Quality
Applications Review and Processing Team (MC148)
Water Quality Division
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Proposed Permit No.: WQ0016884001 (EPA I.D. No. TX0148512)
Applicant Name: FERMA Enterprises, LLC (CN606430676)
Site Name: Taylor Highway 95 North (RN112286893)
Type of Application: New

Please see the responses to your October 3, 2025 email for the above referenced permit. The replacement pages are attached. The electronic submittal has been updated and a copy of the revised application has been placed on the TCEQ ftp site. Please let me know if you need anything further.

Domestic Technical Report 1.0:

1. Section 3: Please provide coordinates of the proposed facility location.

Response: Section 3 has been updated. The 9.05 acre subsurface irrigation field center is located at 30.623740° N , -97.429817° W.

Domestic Technical Report 1.1:

1. Section 1A: Justification of permit need. Revise Section 1A to provide justification for the proposed flows indicated on page 1 of Technical Report 1.0. Provide information such as the size of the development (number of lots), the date construction on the development is scheduled to begin, and the anticipated growth rate of the development (number of houses per month or year), and what flow per home was used to develop the proposed permitted flow. If additional space is needed, submit the justification information as an attachment.

Response: The following sentence has been added to Section 1A. **"**The site is undeveloped cropland. The project includes a 6.63 acre commercial development with retail and restaurant buildings and a 120 unit mobile home park to be completed in two phases. Phase 1 – 14.43 acres, Phase 2 - 15.02 acres will be constructed to include 60 units mobile homes per phase. Construction will begin in early 2026 and end in late 2026."

The flow rate of 245 GPD was used per mobile home site. The WWTP and subsurface irrigation has been designed to accommodate the maximum occupancy and flows for both phases of mobile home park.

WTC
ENGINEERS | SURVEYORS
Andrews Office: 405 SW 1st Street, Andrews, TX 79714 • (432) 523- 2181
Austin Office: 1301 S. Capital of TX Hwy., Suite A-236, Austin, TX 78746 • (512) 328-6736
Texas Registered Engineering Firm F-2746 • Texas Registered Surveyor Firm #10079200

2. Estimate the design flows using 30 TAC Chapter 217.32(a)(3)(Table B.1). Otherwise provide the sources for your basis for this estimate. In addition, provide information whether the population growth will allow for the facility to be constructed and operated in the next 5 or 10 years.

Response: The City of Austin Water Utilities Criteria Manual (UCM 2.9.4) for wastewater was used to design the WWTP and subsurface irrigation sizes to accommodate the maximum occupancy and projected flows. The site design/layout and wastewater treatment system is confined to the property boundaries and will not be expanded. A copy of the guidance document and LUE conversion table has been added to Attachment G.

3. Attach population estimates and/or projections used to derive the flow estimates and anticipated growth rates for developments. Provide the source and basis upon which population figures were derived (census and/or other methodology). Also, provide population projections at the end of the design life of the treatment facility (usually 50+ years) and the source and basis upon which population figures were derived.

Response: The City of Austin Water Utilities Criteria Manual (UCM 2.9.4) for wastewater was used to design the WWTP and subsurface irrigation sized to accommodate the maximum occupancy and projected flows. A copy of the design flow calculations breakdown including the mobile home park and commercial users has been added to Attachment G.

4. Section 5. Facility Site (Instructions Page 60). Provide the information concerning flood protection and wetlands. Treatment units must be protected from inundation from a 100-year frequency flood event. Please provide a zoom up map with the location of the facility and the discharge point.

Response: As indicated in Section 5. A – The proposed facility is above the 100-year frequency flood level. Refer the floodplain map exhibit as presented in Attachments H and I. There is no floodplain within the immediate vicinity of the site. There nearest floodplain is located to the north of +/- 0.8 miles away from the property boundary. See the additional two topography maps in Attachment H which show the location of all surface waters listed on the USGS NHL. In addition, the WWTP treatment units are enclosed. Rainfall run-on will be diverted to storm sewer and only rainfall falling onto surface of subsurface drip irrigation field will drain overland by sheet flow and natural topography. An aerial scaled 1 to inch = 300 ft is included in Attachment E which clearly shows the drainage channel of the intermittent stream listed. See Buffer Zone maps in Attachment D & I for additional offset distances from the WWTP and subsurface irrigation boundaries.

According to the US Fish and Wildlife Service National Wetlands Inventory Map, there are riverine wetlands within the intermittent stream located to the northeast of the site. The Riverine System includes all wetlands and deepwater habitats contained within a channel or an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water. This subsystem also includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent. Surface water maybe present for extended periods especially early in the growing season, but is absent by the end of the growing season in most years. The design of the WWTP and subsurface irrigation of the treated effluent discharge will not affect water quality within the stream bed. A new Wetland Map has been added to Attachment H.

ENGINEERS | SURVEYORS

Andrews Office: 405 SW 1st Street, Andrews, TX 79714 • (432) 523- 2181
Austin Office: 1301 S. Capital of TX Hwy., Suite A-236, Austin, TX 78746 • (512) 328-6736
Texas Registered Engineering Firm F-2746 • Texas Registered Surveyor Firm #10079200

Sincerely,

Cari Harrington

Enclosures:

Form 10054 Domestic Technical Report replacement page 2
Form 10054 Domestic Technical Report replacement page 15
Attachment G insert - Flow Design Calculations Spreadsheet
Attachment G insert – City of Austin Water Living Unit Equivalent (LUE) Guidance Document
Attachment H insert - Wetland Map

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

There is no wastewater CCN for the area of the site. The City of Taylor CCN is less than 3 miles from the property, the site has been de-annexed from the City of Taylor's ETJ. There are two pending permits for wastewater treatment facilities within 3 miles, however these are privately owned and serve only the collection systems associated with the developments. The CCN, ETJ and WWTP maps have been included in Attachment G. The site is undeveloped cropland. The project includes a 6.63 acre commercial development with retail and restaurant buildings and a 120 unit mobile home park to be completed in two phases. Phase 1 – 14.43 acres, Phase 2 - 15.02 acres will be constructed to include 60 units mobile homes per phase. Construction will begin in early 2026 and end in late 2026.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☒ No

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

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.**

Influent enters the treatment system from the sanitary sewer lift station and flows into the primary settling tank, then equalization collection tank (trash tank), then to the aeration basins then to the secondary settling tank final clarifier. Pumps return sludge from the settling tank to the aeration basins. Effluent flows through the weir trough into the effluent storage basin before being routed to the subsurface drain fields. Waste sludge is removed directly from the sludge hoppers to the sludge holding basin and then hauled off site for further treatment and disposal.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Primary Settling Tank	1	10 ft x 20 ft x 14 ft
Equalization Collection Tank	1	10 ft x 20 ft x 14 ft
Aeration Basins	4	10 ft x 20 ft x 14 ft
Settling Basin Final Clarifier	1	10 ft x 20 ft x 15.8 ft
Sludge Holding Tank	1	10 ft x 20 ft x 14 ft
Effluent Storage Basins	6	10 ft x 20 ft x 14 ft
Subsurface drain field	1	9.05 acres

C. Process Flow Diagram

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

Attachment: F

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

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

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

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

- Latitude: 30.623740° N
- Longitude: -97.429817° 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

FERMA Taylor Highway 95 North Flow Design Calculations						
Bldg	**Type**	**SQ FT**	**conv rate**	**LUE**	**GPD (LUE*245)**	**MGD**
A1	Restaurant	2100	200	10.5	2572.5	0.0026
A2	Retail	8100	1660	4.9	1195.5	0.0012
A3	Retail	6100	1660	3.7	900.3	0.0009
A3	Restaurant	2000	200	10	2450	0.0025
A4	Restaurant	2000	200	10	2450	0.0025
Total Retail				8.6	2095.8	0.0021
Total Restaurant				30.5	7472.5	0.0075
Total All Commercial				39.1	9568.3	0.0096
WWTP Designed Total - Commercial				**40.0**	**9800**	**0.0098**
Residential		**Number**				
Mobile Homes		120	1	120	29400	0.0294
TOTAL Commercial & Residential				**160**	39200	**0.0392**
160 LUE X 245 GPD/LUE =						
Min Area Requirements Irrigation						
GPD/0.1= SQ FT		**MGD**	**GPD**	**SQ FT**	**Acres**	
Commercial		0.0294	29400	294000	6.75	
Residential		0.0098	9800	98000	2.25	
Total		0.0392	**39200**	**392000**	**9.00**	
						Total Subsurface Irrigation Acreage Designed 9.05
CALCULATION ASSUMPTIONS:						
1. USING CITY OF AUSTIN LUE REFERENCE DOCUMENT TO DETERMINE WASTEWATER FLOW: 1 LUE = 245 GPD						
2. USING CITY OF AUSTIN LUE CONVERSION RATE: RESTAURANT = 200 SF/LUE; RETAIL = 1,660 SF/LUE						
3. USING CITY OF AUSTIN LUE CONVERSION RATE: SINGLE FAMILY RESIDENCE; MODULAR HOME; MOBILE HOME = 1 LUE per Unit.						
4. USING TCEQ RULE 222.83(a)(1): APPLICATION RATE = 0.1						

City of Austin | Austin Water
6310 Wilhelmina Delco Drive, Suite 3100
Austin, Texas 78752
http://www.austintexas.gov/SER
SER@austintexas.gov

LIVING UNIT EQUIVALENT (LUE) GUIDANCE DOCUMENT

Definition: A living unit equivalent (LUE) is defined as the typical flow that would be produced by a single family residence located in a typical subdivision. An LUE is assumed to represent 3.5 people living in a residence. For water requirements, this includes consumptive uses, such as lawn watering and evaporative coolers. The wastewater system does not receive all of these water flows, so the calculated flows differ between water and wastewater. The number of LUEs for a project is constant; only the water and wastewater flows are different. An LUE is not equivalent to a fixture unit.

WATER

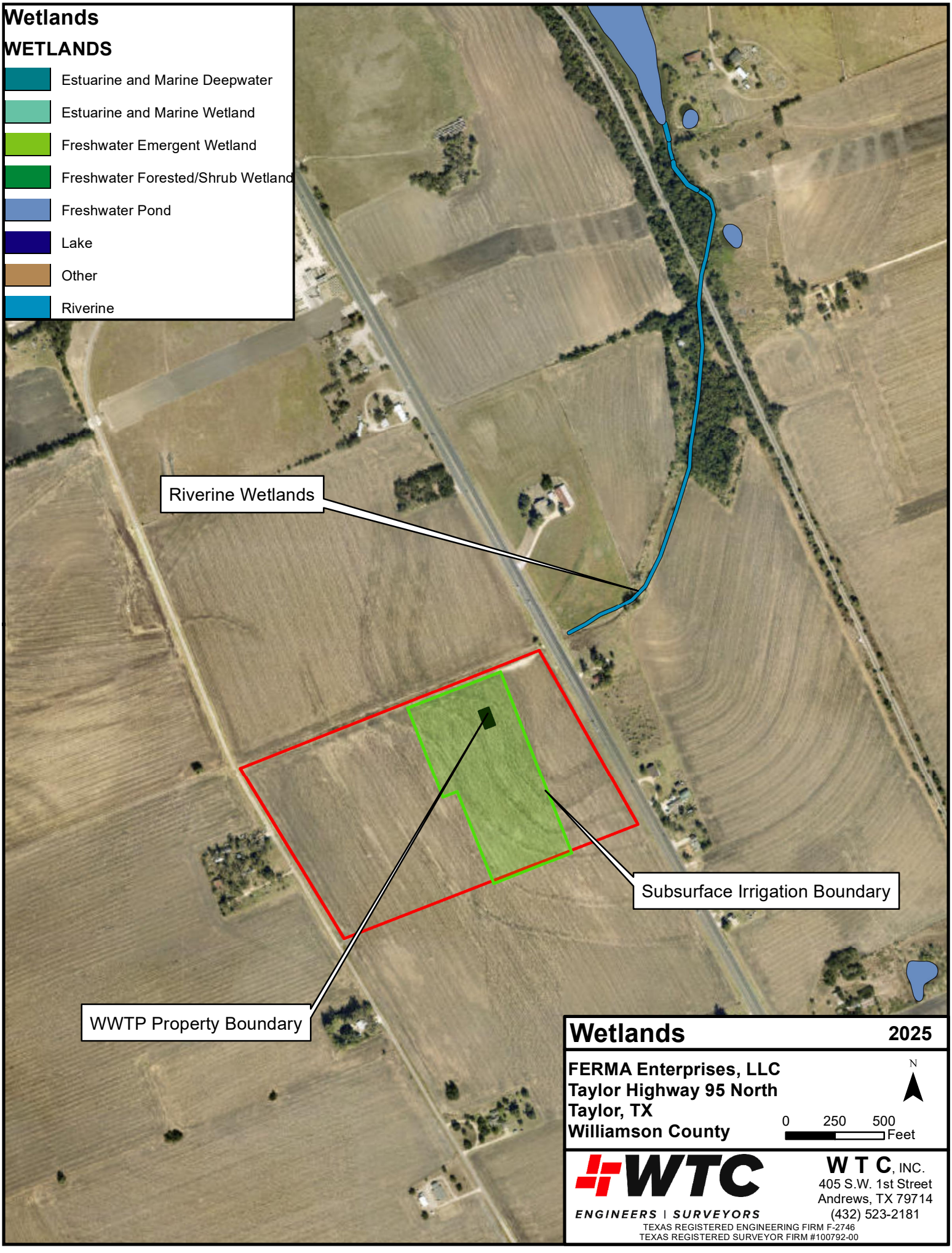
Details on calculating the Water Utility Requirements for a project can be found in the Utilities Criteria Manual (UCM 2.9.2). The UCM is available online at:
https://www.municode.com/library/tx/austin

WASTEWATER

Details on calculating the Wastewater Utility Requirements for a project can be found in the Utilities Criteria Manual (UCM 2.9.4)
For Service Extension Request (SER) projects the following Wastewater Peak Flow Factor can be used:
Peak Flow Factor = [18+(0.0206 x F)^0.5]/[4+(0.0206 x F)^0.5)], Maximum = 4

The Following LUE Conversions can be used to estimate flows for various development types (Use is Not Mandatory; if using other factors please explain how the factors better represent a specific development).

Proposed Use (Residential)	LUE CONVERSION (L.U.E. per Unit)
Single Family Residence; Modular Home; Mobile Home:	1
Duplex:	2
Triplex; Fourplex; Condo Unit; P.U.D., Apartment Unit (6+ Units/Acre to 24 Units/Acre):	0.7
Condo or Apartment Unit (24+ Units/Acre):	0.5
Hotel or Motel Room:	0.5
Proposed Use (Commercial)	**LUE CONVERSION (Units per L.U.E.)**
Office (Square Feet of Floor)	3000
Office Warehouse (Square Feet of Floor)	4000
Retail; Shopping Center (Square Feet of Floor)	1660
Restaurant; Cafeteria (Square Feet of Floor)	200
Hospital (Beds)	1
Rest Home (Beds)	2
Church (Worship Services Only) (seats)	70
High / Middle School (Includes Gym and Cafeteria) (Students)	13
Elementary School (Includes Gym and Cafeteria) (Students)	15



Wetlands 2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 250 500 Feet

WTC ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

ADMINISTRATIVE REPORT 1.0

Attachment B

Summary of Application in Plain Language Template

Public Involvement Plan Form

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☒ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

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

☒ Located within any of the following geographical locations:

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

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

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

Rural area. No discharge

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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 DOMESTIC WASTEWATER/STORMWATER

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

FERMA Enterprises, LLC (2. Enter Customer Number here (i.e., CN6########)) proposes to operate Taylor Highway 95 North (5. Enter Regulated Entity Number here (i.e., RN1########)), a commercial and residential development. The facility will be located at 0.79 miles north of Chandler Road on Highway 95, in Taylor, Williamson County, Texas 76574. New application to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.040 million gallons per day (MGD) via a subsurface drip irrigation system with a minimum area of 9.05 acres of public land access.

Discharges from the facility are expected to contain less than 100 mg/l biochemical oxygen demand (BOD), 100 mg/l total dissolved solids (TSS) and 126 E.Coli CFU MPN/ 100 ml. Domestic wastewater will be treated by activated sludge process followed by clarification and disinfection. Wastewater enters the treatment system into the primary settling tank, then equalization collection tank, then aeration basins, then clarifier, then effluent storage basins

before being routed to the subsurface drain fields. Waste sludge is removed directly from the sludge hoppers to the aerated sludge holding basin and hauled off site for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS /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.

FERMA Enterprises, LLC (2. Introduzca el número de cliente aquí (es decir, CN6########).) propone operar Carretera Taylor 95 Norte 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), un desarrollo comercial y residencial. La instalación estará ubicada en 0.79 millas al norte de Chandler Road, en la Carretera 95, en Taylor, Condado de Williamson, Texas 76574. Nueva solicitud para la eliminación de efluentes de aguas residuales domésticas tratadas a un caudal promedio diario que no exceda los 0.040 millones de galones por día (MGD) mediante un sistema de riego por goteo subterráneo con un área mínima de 9.05 acres de acceso a terrenos públicos.

Se espera que las descargas de la instalación contengan menos de 100 mg/l de demanda bioquímica de oxígeno (DBO), 100 mg/l de sólidos disueltos totales (SST) y 126 UFC de E. coli (NMP)/100 ml.. Las aguas residuales domésticas se tratarán mediante un proceso de lodos activados, seguido de clarificación y desinfección. están tratado por Las aguas residuales ingresan al sistema de tratamiento a través del tanque de sedimentación primario, luego al tanque de recolección de ecualización, luego a las piscinas de aireación, finalmente al clarificador y finalmente a las piscinas de almacenamiento de efluentes, antes de ser conducidas a los campos de drenaje subterráneo. Los lodos residuales se extraen directamente de las tolvas de lodos a la piscina de almacenamiento de lodos aireados y se transportan fuera del sitio para su posterior tratamiento y eliminación.

Section 3. Application Information

Type of Application (check all that apply):

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

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

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

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

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

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

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ADMINISTRATIVE REPORT 1.0

Attachment C

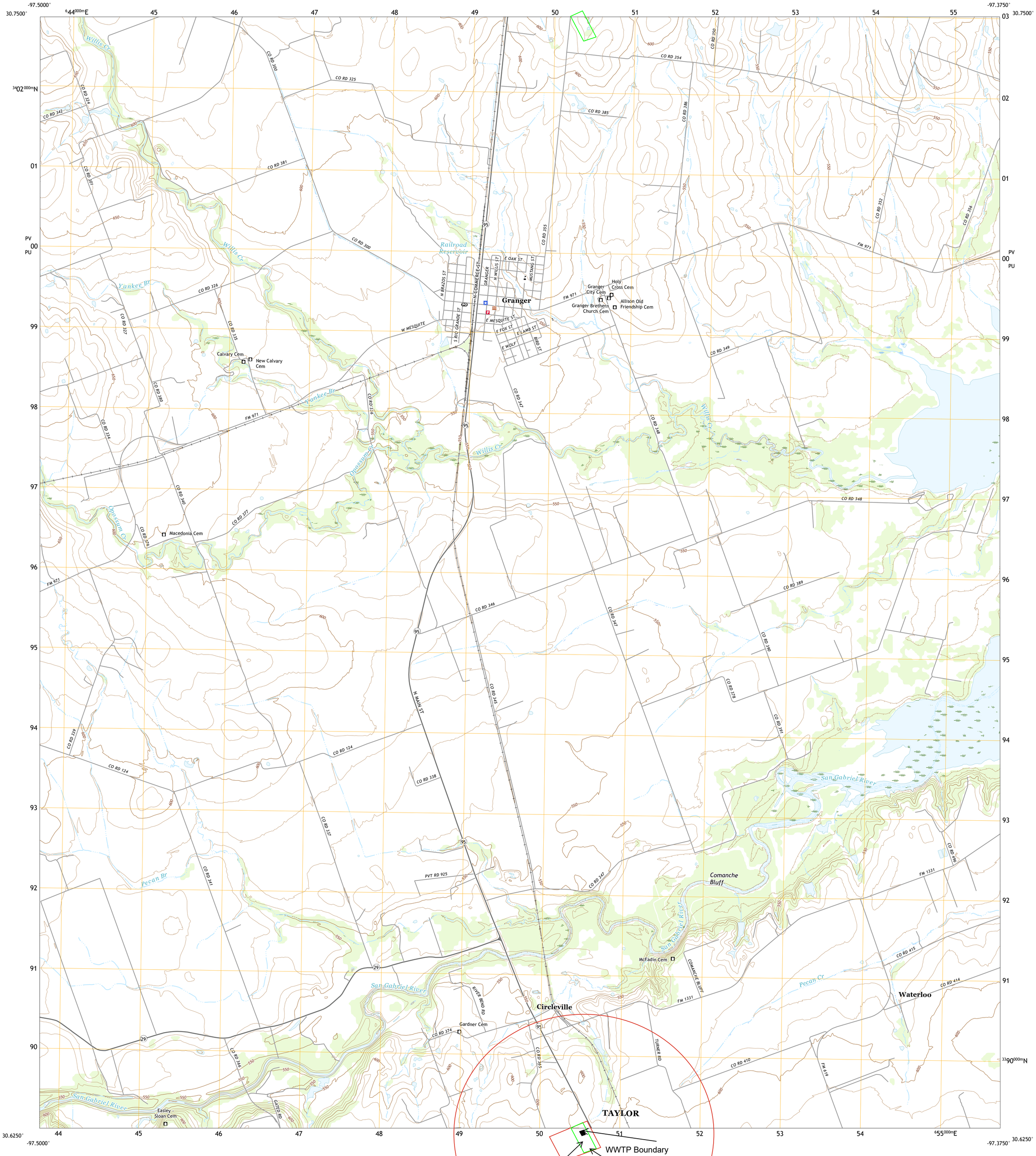
Original full-size USGS Topographic Map

Topographic Map

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

The National Map US Topo

GRANGER QUADRANGLE
TEXAS - WILLIAMSON 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, August 2016 - November 2016
Roads..... U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2020
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

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

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN
GN
3°33′ 63 MILS
0°48′ 14 MILS

U.S. National Grid
100,000 - m Square ID
PV
00
PU
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 MILES 1
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

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

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Jarrell
2 Bartlett
3 Davilla
4 Weir
5 Granger Lake
6 Hutto
7 Taylor
8 Thrall

GRANGER, TX
2022

NSN 7643016396356
NGA REF NO. USGSX24K18043

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

USGS science for a changing world

The National Map US Topo

TAYLOR QUADRANGLE
TEXAS - WILLIAMSON COUNTY
7.5-MINUTE SERIES

1 Mile

WWTP Site Boundary

Property Boundary

Subsurface Irrigation Boundary

-97.5000° 30.6250° 644000mE 45 46 47 48 49 50 51 52 53 54 55 -97.3750° 30.6250°

3388000mN 88 87 86 85 84 83 82 81 80 79 78 77 76 3376000mN

30.5000° 44 45 46 47 48 49 50 51 52 53 54 655000mE 30.5000°
-97.5000° -97.3750°

Easley - Sloan Cem
Turkey Cr
CHANDLER RD
N CR 366
CO RD 366
CO RD 374
CO RD 375
CO RD 408
TURNER RD
CO RD 413
FM 619
CO RD 411
CO RD 368
CO RD 367
N FORK MUSTANG CR
Wilson Spring
Wilson Spring Cem
OLD GEORGETOWN RD
Bull Br
CARLOS PARKER BLVD NW
ESTES PARK
BIG BEND TRL
YELLOWSTONE DR
PINEHURST DR
JOHNSON DR
CRYSTAL CIR
DAVIS ST
N MAIN ST
CO RD 412
CO RD 369
CO RD 101
Mustang Cr
CO RD 398
Little Mustang Cr
NORTH DR
DONNA DR
DRAKE LN
HOLLY SPRINGS DR
MALLARD LN
SMITH AVE
KIRK ST
GILMORE ST
HOOD ST
STASNY ST
LEXINGTON ST
SYCAMORE ST
KIMBRO ST
HOWARD ST
MEADOW LN
KENT ST
GRACE ST
JASON DR
PRATHER ST
MCLAIN ST
CECELIA ST
SLOAN ST
DEBUS DR
WYETH ST
EDMOND ST
LIZZIE ST
ANNIE ST
VICTORIA ST
NOAH ST
BRANCH ST
FOWLER ST
VANCE ST
TALBOT ST
PORTER ST
WASHBURN ST
ELLIOTT ST
BURNETT ST
VIOLET DR
JONES ST
HOSACK ST
OLD GRANGER RD
E LAKE DR
OLD THORNDALE RD
GRAVEL PIT RD
W LAKE DR
CO RD 396A
JUSTIN LN
Taylor Municipal Airport
AIRPORT RD
TAYLOR
City Lake
Saint Marys Catholic Cem
Taylor City Cem
W 12TH ST
W 11TH ST
W 10TH ST
W 9TH ST
W 7TH ST
W 6TH ST
W 5TH ST
W 4TH ST
W 3RD ST
W 2ND ST
E 4TH ST
E 3RD ST
E 1ST ST
FM 427
Bus 79
Railroad Lake
WELCH
W OAK ST
W WALNUT ST
PECAN ST
DICKEY ST
BLAND ST
S MAIN ST
FM 112
S EDMOND ST
S NOAH ST
W RIO GRANDE ST
S RIO GRANDE ST
CAREY AVE
CARLOS G PARKER BLVD SW
CARLOS G PARKER BLVD SE
POTOMAC ST
OLD COUPLAND RD
CO RD 452
SOUTHWOOD HILLS DR
LARRY ST
Our Lady Of Guadalupe Cem
W 2ND ST
HERMANN SONS RD
CO RD 403
CO RD 395
CO RD 373
CO RD 101
FM 3349
HUTTO
Immanuel Lutheran Church Cem
CO RD 401
CO RD 404
BUTTERCUP RD
Macho Grande Airport
CO RD 400
PVT RD 929
Battleground Cr
CO RD 132
CARPENTER DR
FM 973
Boggy Cr
REGINA DR
URBANEK FARM RD
PVT DRIVE 3
Site Number Thirty
CO RD 483
CO RD 497
PVT PATH
CO RD 405
CO RD 406
Luv Field
KATHY RD
WINDY LN
CO RD 407
CO RD 453
Avery Br

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
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1 000-meter grid:Universal Transverse Mercator, Zone 14R

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MN
GN
3°33´ 63 MILS
0°48´ 14 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PU
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

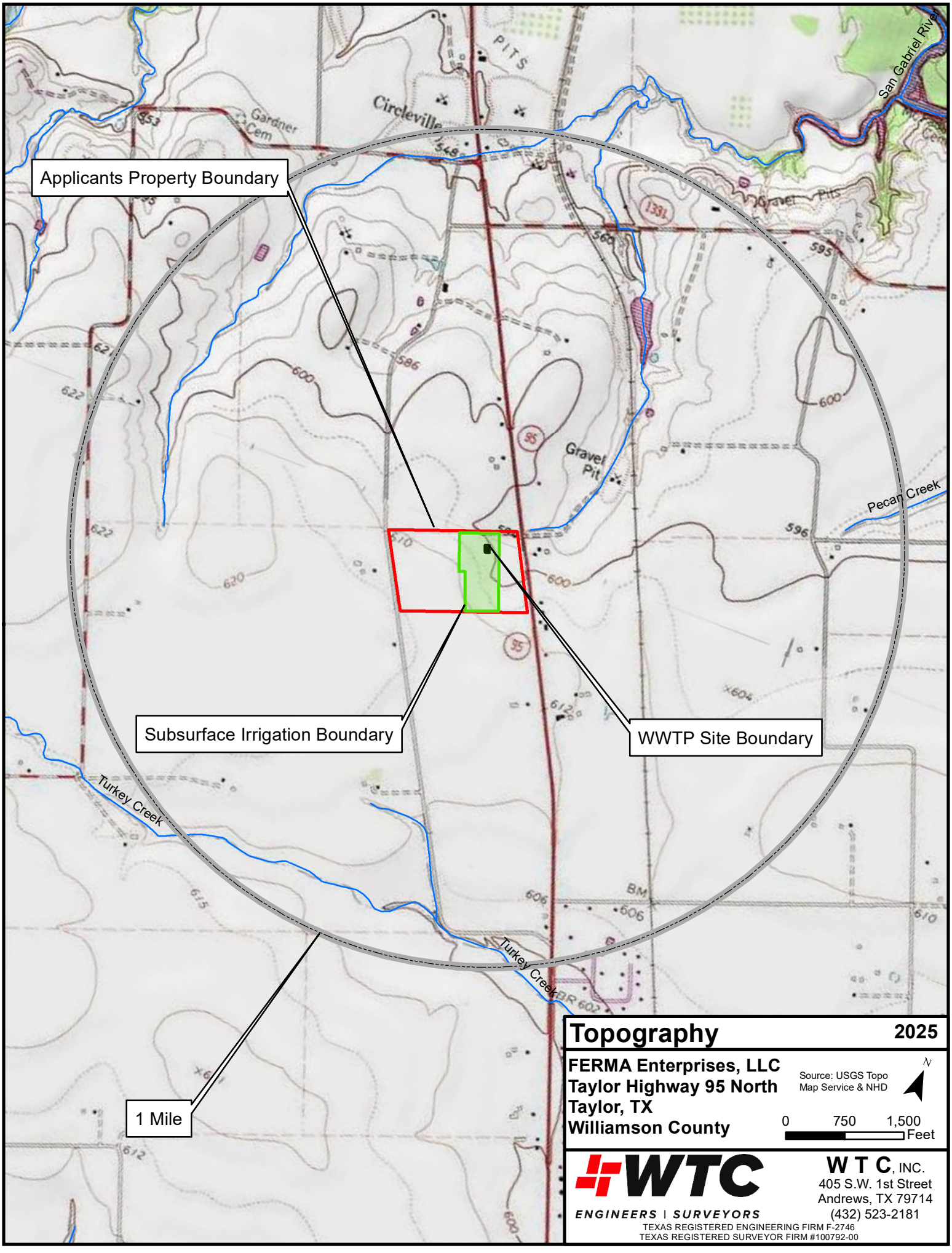
1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Weir
2 Granger
3 Granger Lake
4 Hutto
5 Thrall
6 Pflugerville East
7 Coupland
8 Structure

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

TAYLOR, TX
2022

NSN 7643016398533
NGA REF NO. USGSX24K44365



Topography

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

Source: USGS Topo Map Service & NHD

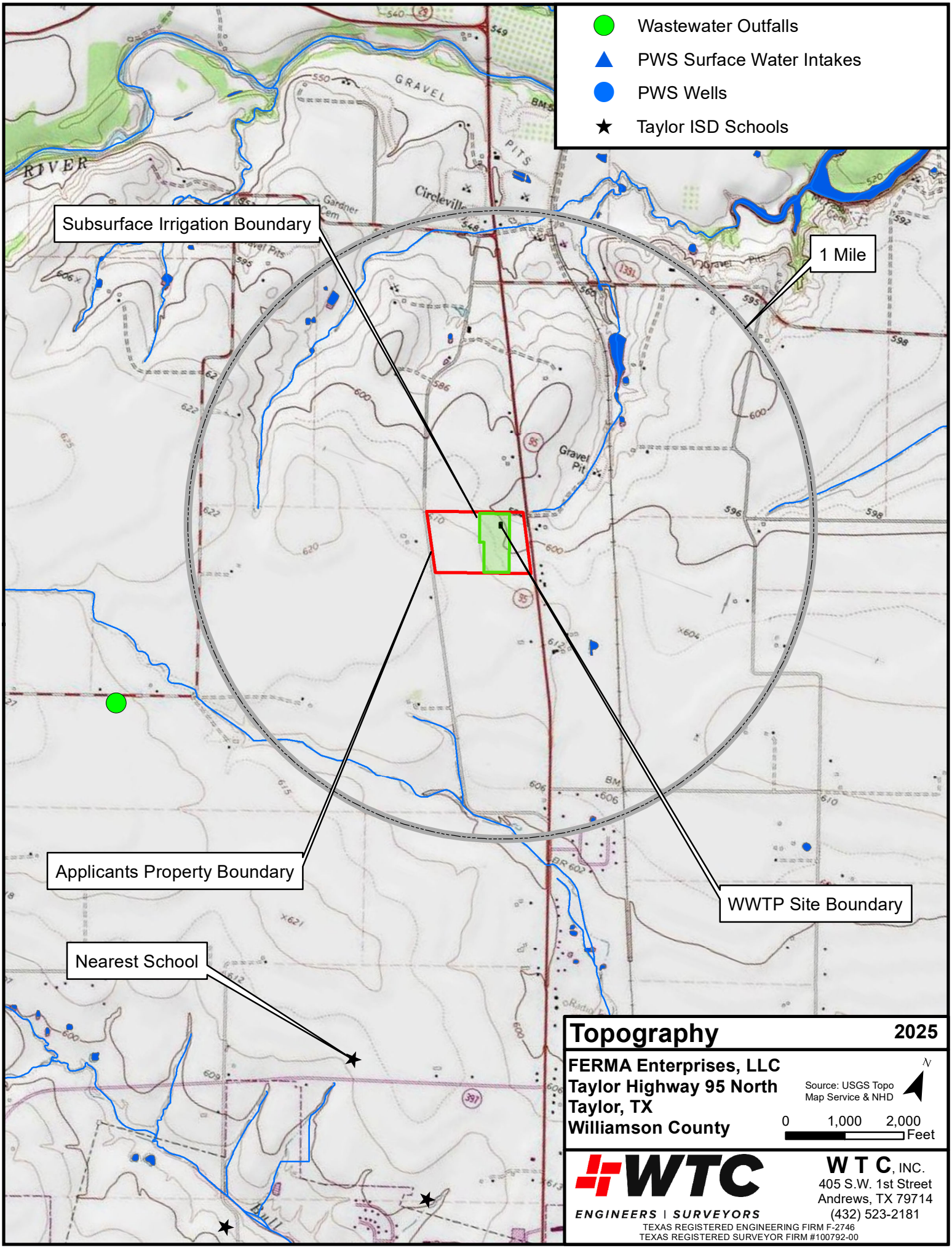
N

0 750 1,500 Feet

WTC
ENGINEERS | SURVEYORS

W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181

TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Topography

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

Source: USGS Topo Map Service & NHD

0 1,000 2,000 Feet

WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
ENGINEERS | SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

ADMINISTRATIVE REPORT 1.0

Attachment D

Affected Landowners Map

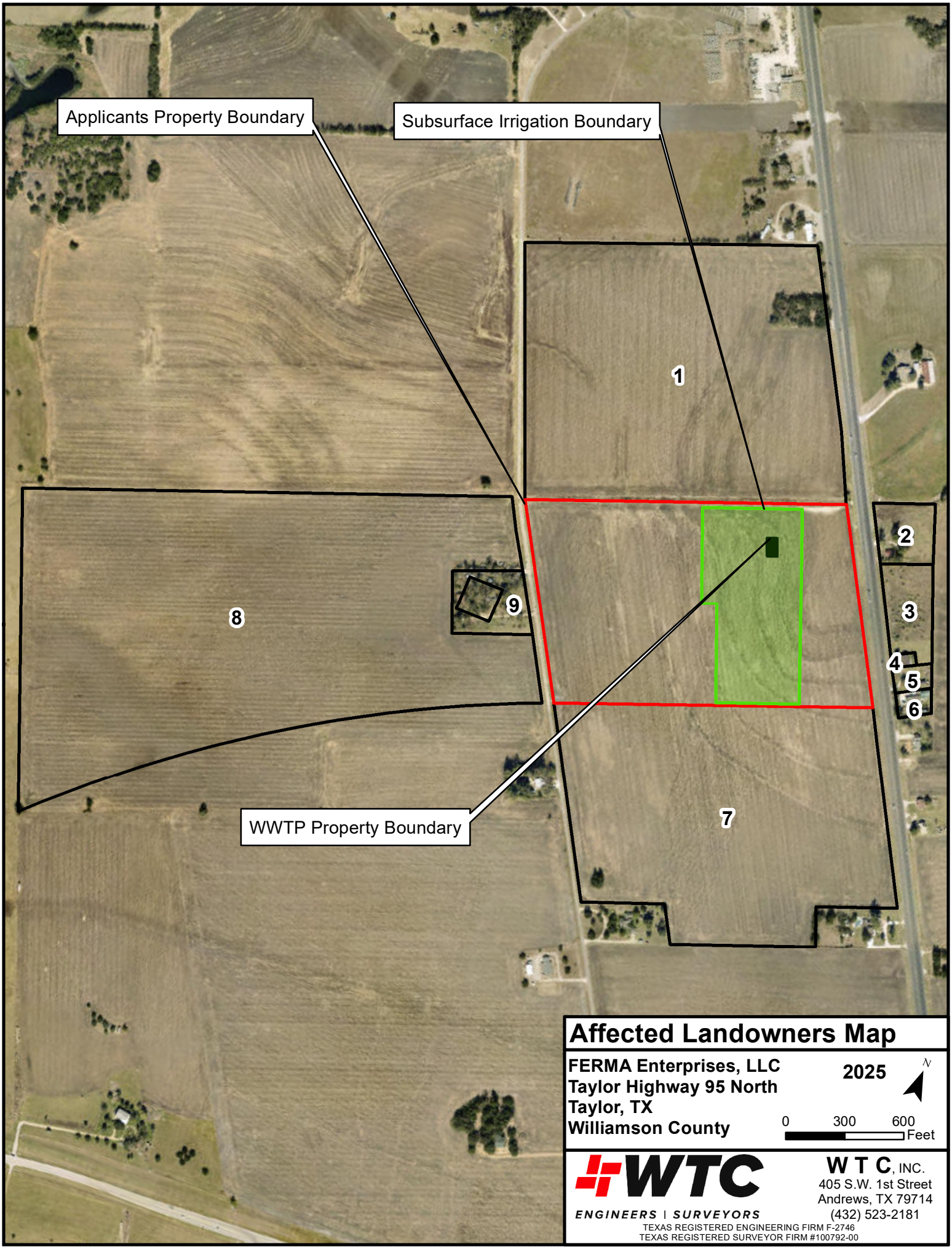
Affected Landowners Cross Reference

Affected Landowners Labels

Photograph Plot Map

Original Photographs

Buffer Zones Map



Affected Landowners Map

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

2025

N

0 300 600 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

AFFECTED LANDOWNER'S MAP CROSS REFERENCE

MAP LABEL #	WCAD PROPERTY ID	OWNER NAME	MAILING ADDRESS
1	R086522	BOHLS KENT L & KIRK R & RANDALL A & RODNEY G BOHLS	PO BOX R BASTROP, TX 78602-1991
2	R018678	PALMER, NANCY & RAYMOND FOSTER JR	902 RIVERLAWN DR ROUND ROCK, TX 78681-5654
3	R018633	PALMER, NANCY & RAYMOND FOSTER JR	902 RIVERLAWN DR ROUND ROCK, TX 78681-5654
4	R018685	STARKS, SANDY L	5906 N MAIN ST TAYLOR, TX 76574-4991
5	R018670	STARKS, SANDY L	5906 N MAIN ST TAYLOR, TX 76574-4991
6	R018655	RAMOS, ISMAEL P & MARTHA HERNANDEZ	5902 N MAIN ST TAYLOR, TX 76574-4991
7	R565050	YUPEL LLC	1387 COUNTY ROAD 464 THORNDALE, TX 76577-0050
8	R018636	GRAW, MARVIN & DARLENE HYZAK	1309 ARRONIMINK CIR AUSTIN, TX 78746-6303
9	R018667	SLADEK, BONNIE JEAN	950 COUNTY ROAD 365 TAYLOR, TX 76574-4931

KENT L & KIRK R & RANDALL A & RODNEY G BOHLS
PO BOX R
BASTROP, TX 78602-1991

PALMER, NANCY & RAYMOND FOSTER JR
902 RIVERLAWN DR
ROUND ROCK, TX 78681-5654

STARKS, SANDY L
5906 N MAIN ST
TAYLOR, TX 76574-4991

RAMOS, ISMAEL P & MARTHA HERNANDEZ
5902 N MAIN ST
TAYLOR, TX 76574-4991

YUPEL LLC
1387 COUNTY ROAD 464
THORNDALE, TX 76577-0050

GRAW, MARVIN & DARLENE HYZAK
1309 ARRONIMINK CIR
AUSTIN, TX 78746-6303

SLADEK, BONNIE JEAN
950 COUNTY ROAD 365
TAYLOR, TX 76574-4931

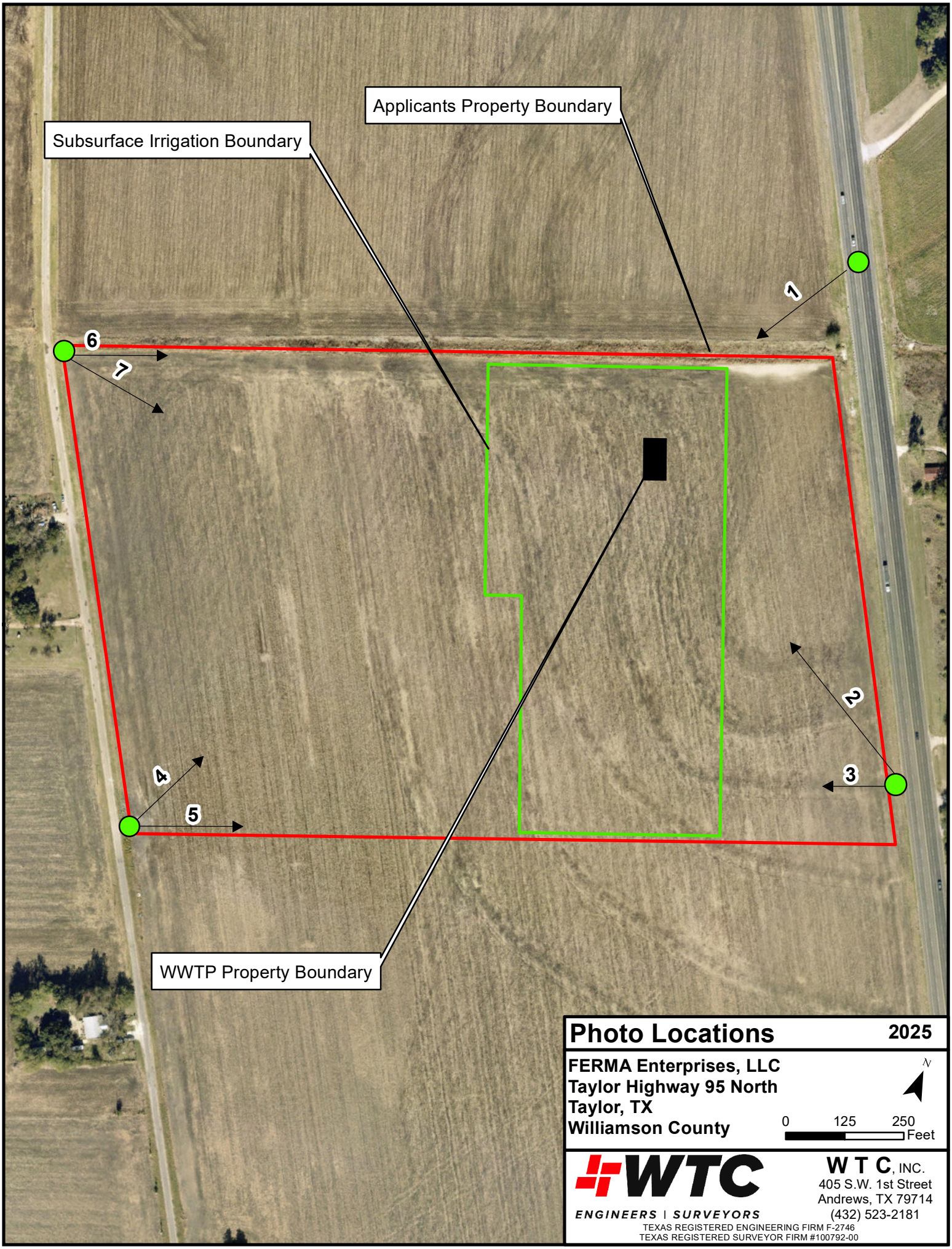


Photo Locations

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 125 250 Feet

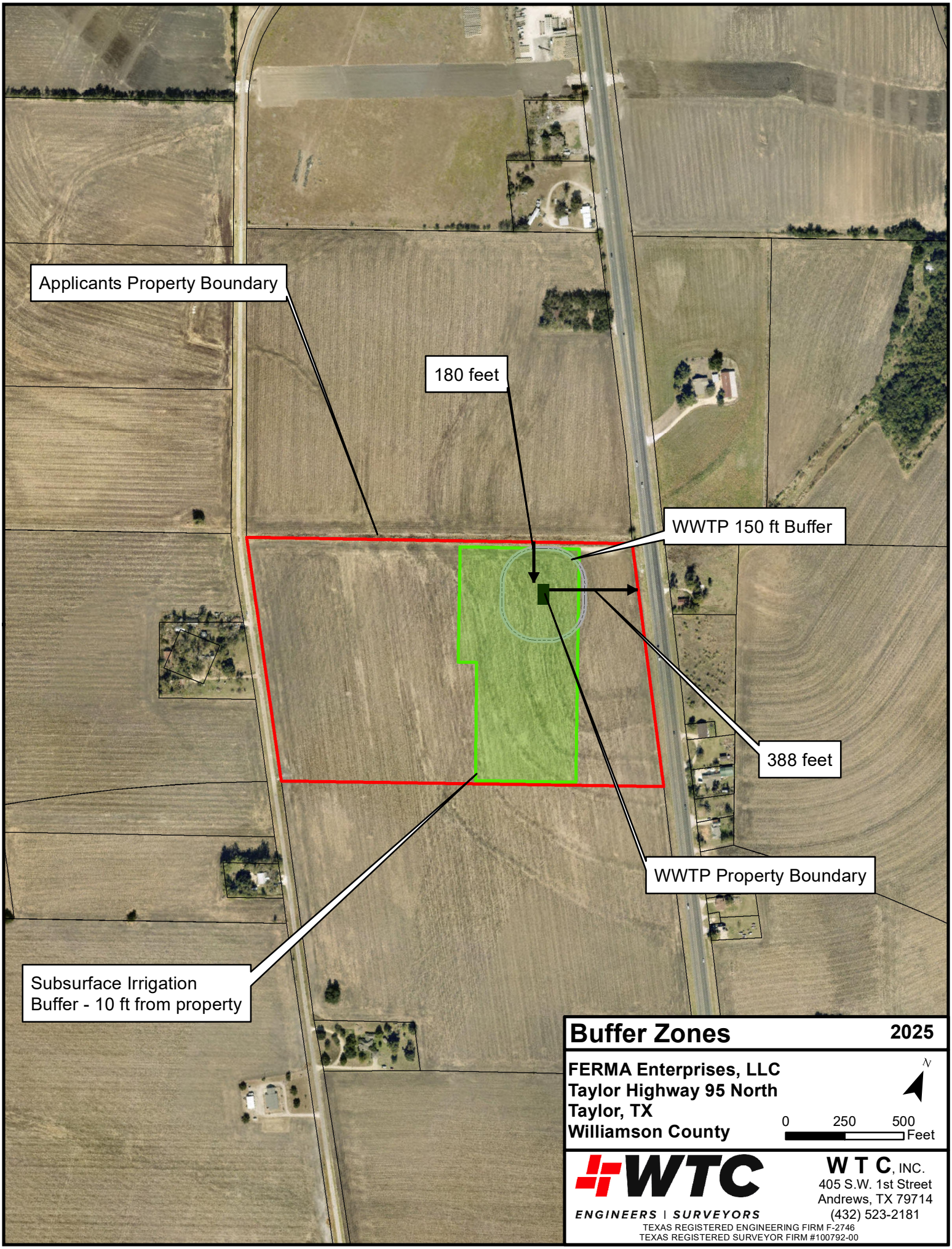
WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
ENGINEERS | SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

FERMA Enterprises, LLC

FERMA Enterprises, LLC

FERMA Enterprises, LLC

FERMA Enterprises, LLC



Buffer Zones

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 250 500 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

ADMINISTRATIVE REPORT 1.0

Attachment E

Supplemental Permit Information Form (SPIF)

Location Map

Site Maps

Topography Map

Topography Wells/Outfalls/Schools

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: FERMA Enterprises, LLC

   Permit No. WQ00 Click here to enter text EPA ID No. TX Click here to enter text

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

   The Taylor Highway 95 North is located on Highway 95, 0.79 miles north of Chandler Road. Williamson County CAD Parcel R018621. NE corner of property: 30.625611, -97.428752. The Wastewater Treatment Plant will be located at 30.624344°, -97.429363°

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

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

First and Last Name: Robert H. Thonhoff Jr.

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

Title: Engineer

Mailing Address: 1301 S Capital of Texas Hwy #A-236

City, State, Zip Code: Austin, TX 78746-6582

Phone No.: 512-328-6736 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: bob.thonhoff@wtcinc.com

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

NA

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

None – subsurface irrigation

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☒ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☒ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features
- ☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Onsite detention ponds will be constructed so there is no increase in runoff due to the addition of impervious cover areas at the site. Construction will include onsite utilities for water, wastewater and electric.

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

The site is undeveloped. Existing land use is farm/croplands. According to the USFWS National Wetlands Inventory WMS and FEMA NHL no wetlands or floodplains are located on the property.

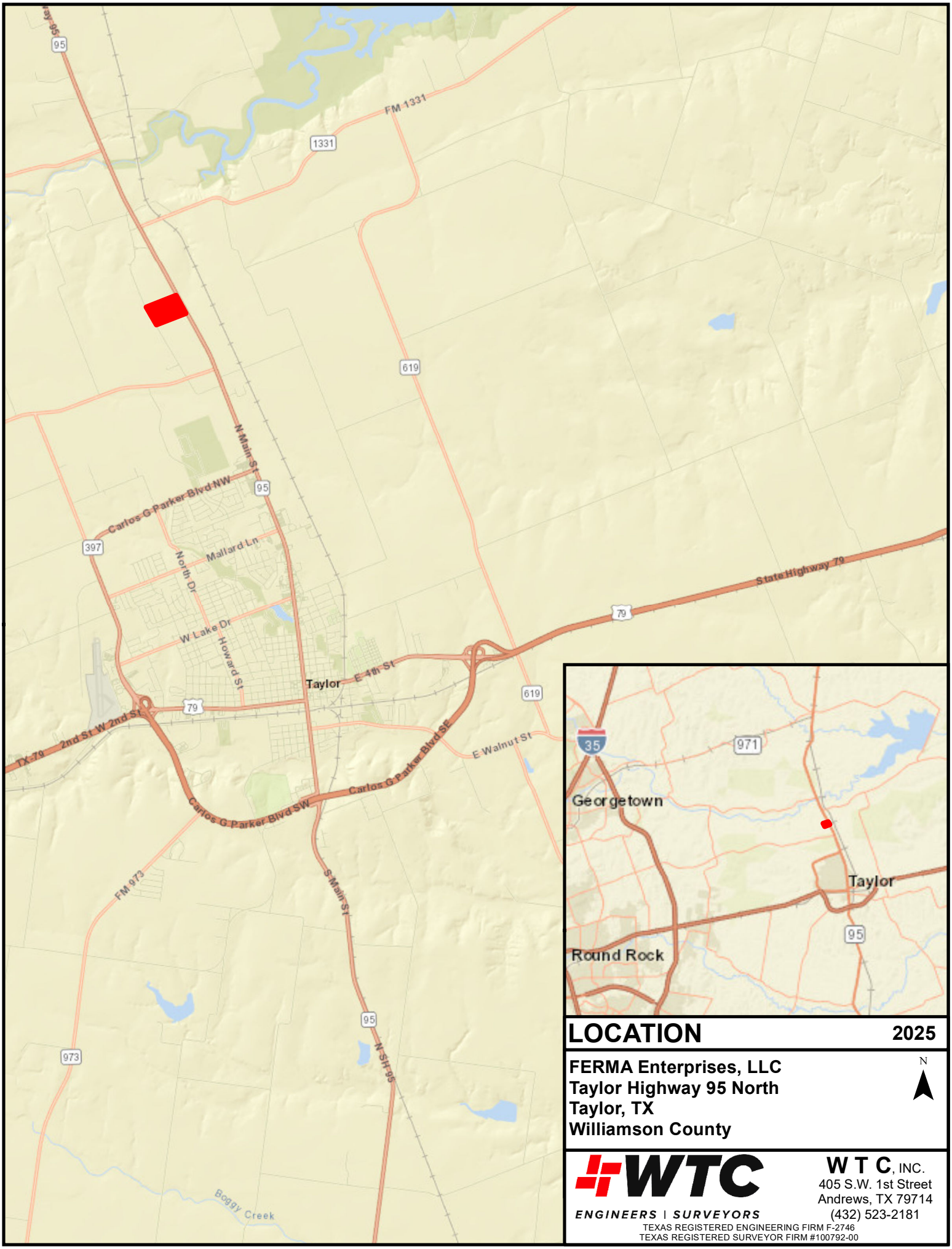
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

Construction will begin in early 2026 and end in late 2026. Construction schedule of structures to be determined. Structures include commercial Buildings A1, A2, A-3, and A-4, Washateria, Shower Building, Detention Ponds, Lift Station and Wastewater Treatment Plant.

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

WTC, Inc is engineering and designing the site plan for Taylor Highway 95 North. The project includes a 6.63 acre commercial development with retail and restaurant buildings and a 120 unit mobile home park to be completed in two phases. Phase 1 – 14.43 acres, Phase 2 - 15.02 acres will be constructed to include 60 units mobile homes per phase .



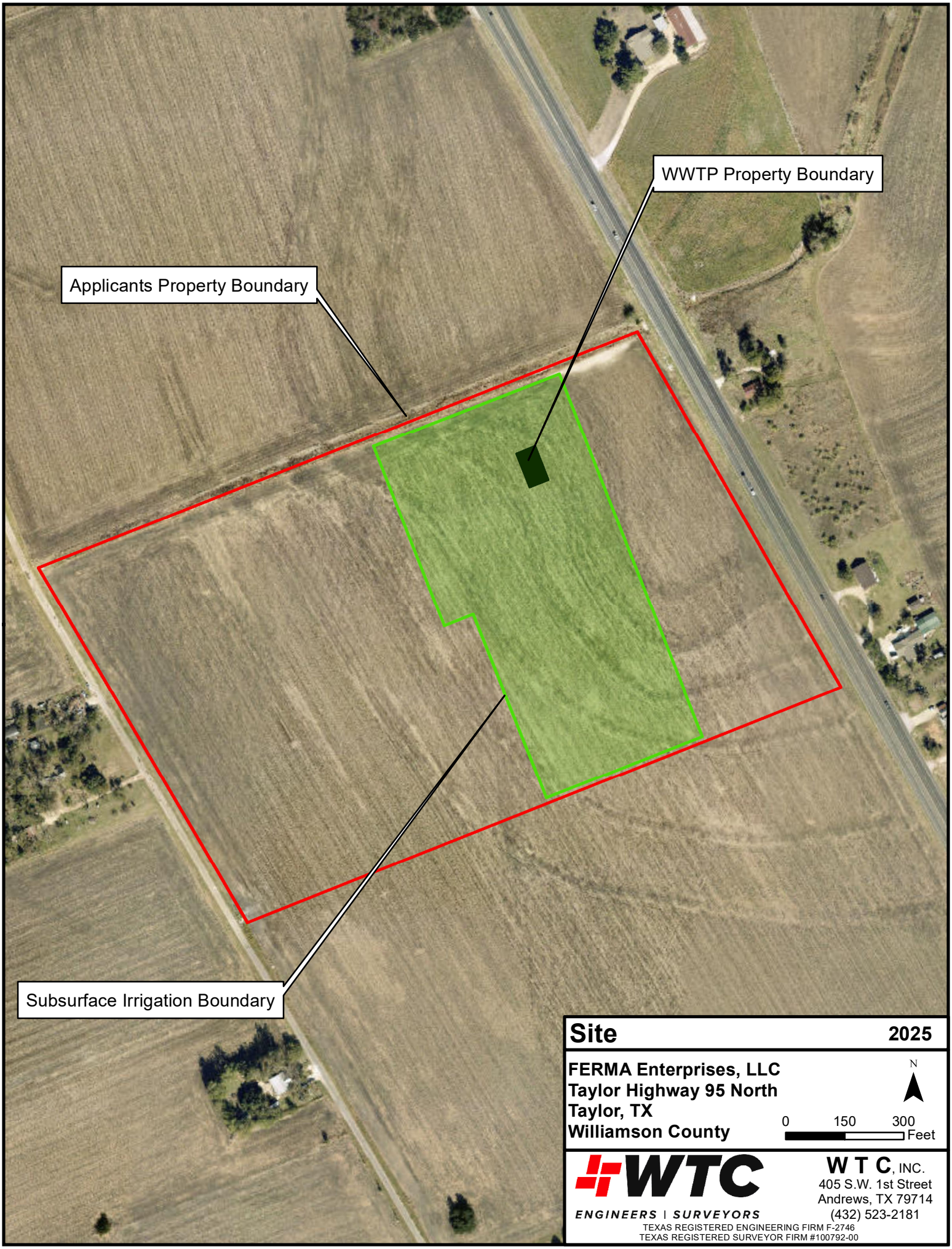
LOCATION

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



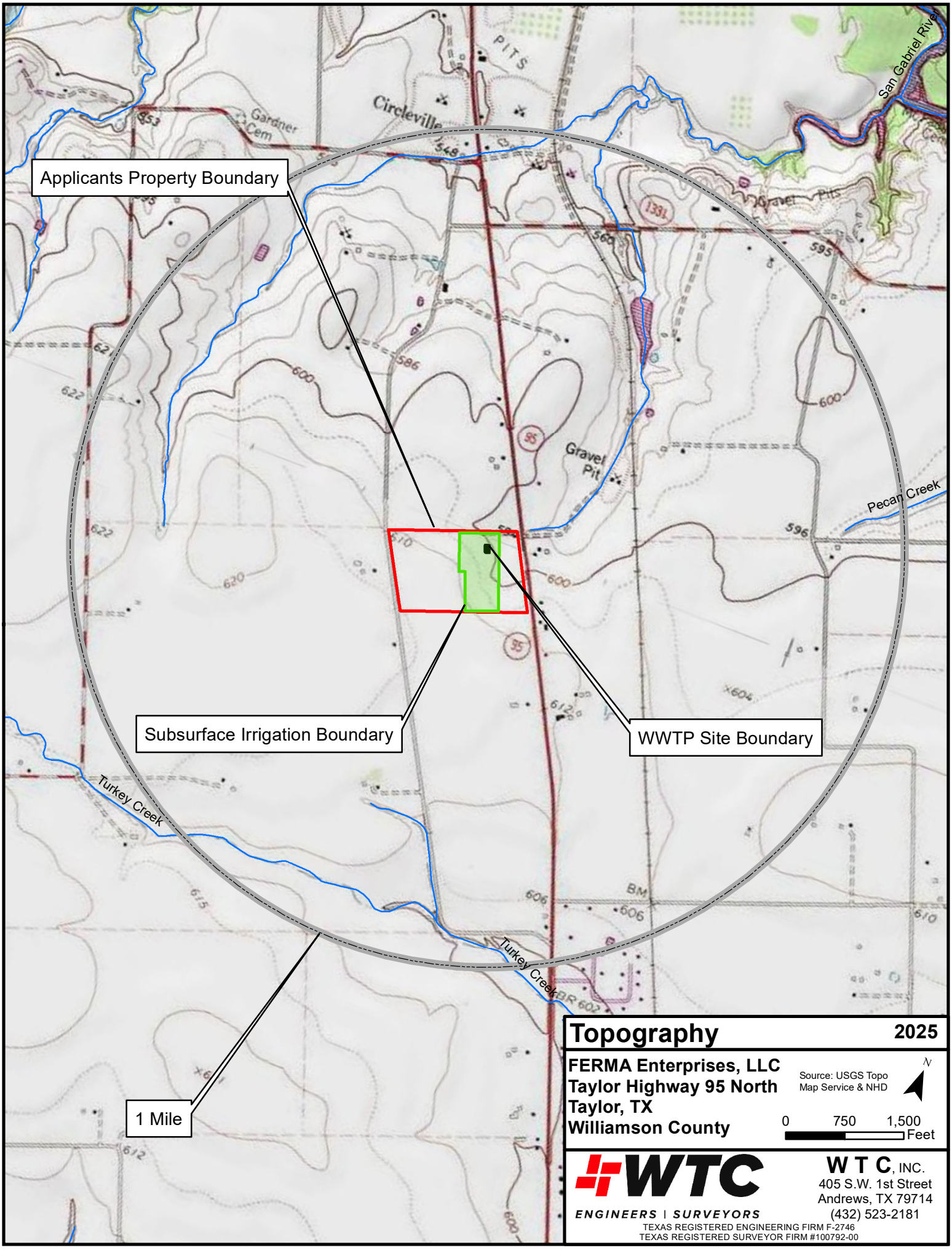
Site **2025**

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 150 300 Feet

WTC, INC.
ENGINEERS | SURVEYORS
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Topography

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

Source: USGS Topo Map Service & NHD

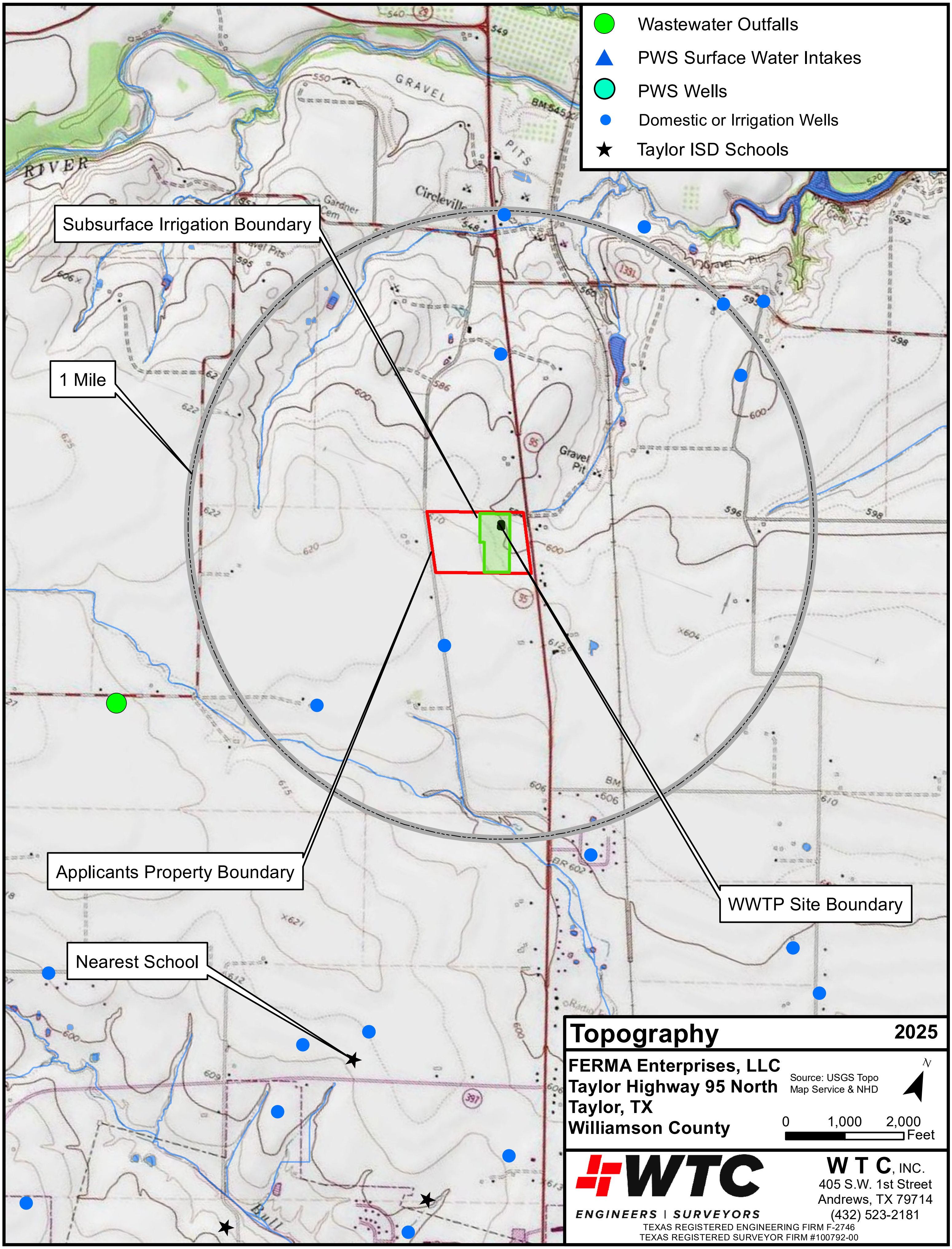
N

0 750 1,500 Feet

WTC
ENGINEERS | SURVEYORS

W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181

TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00


Wastewater Outfalls
PWS Surface Water Intakes
PWS Wells
Domestic or Irrigation Wells
Taylor ISD Schools
Subsurface Irrigation Boundary
1 Mile
Applicants Property Boundary
WWTP Site Boundary
Nearest School
RIVER
GRAVEL
PITS
Circleville
Gardner Cem
Gravel Pit
Topography
2025
FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County
Source: USGS Topo Map Service & NHD
N
0 1,000 2,000
Feet
WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 0.040

2-Hr Peak Flow (MGD): 0.016

Estimated construction start date: January 2026

Estimated waste disposal start date: December 2026

D. Current Operating Phase

Provide the startup date of the facility: December 2026

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Influent enters the treatment system from the sanitary sewer lift station and flows into the primary settling tank, then equalization collection tank (trash tank), then to the aeration basins then to the secondary settling tank final clarifier. Pumps return sludge from the settling tank to the aeration basins. Effluent flows through the weir trough into the effluent storage basin before being routed to the subsurface drain fields. Waste sludge is removed directly from the sludge hoppers to the sludge holding basin and then hauled off site for further treatment and disposal.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Primary Settling Tank	1	10 ft x 20 ft x 14 ft
Equalization Collection Tank	1	10 ft x 20 ft x 14 ft
Aeration Basins	4	10 ft x 20 ft x 14 ft
Settling Basin Final Clarifier	1	10 ft x 20 ft x 15.8 ft
Sludge Holding Tank	1	10 ft x 20 ft x 14 ft
Effluent Storage Basins	6	10 ft x 20 ft x 14 ft
Subsurface drain field	1	9.05 acres

C. Process Flow Diagram

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

Attachment: F

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

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

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

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

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

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

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and

- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

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

Taylor Highway 95 North - The service area is within the property boundaries and will serve the areas as shown in Attachments F – Site Drawing and Site Service Area.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Taylor Highway 95 North	FERMA Enterprises, LLC	**Privately Owned**	560

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☐ Yes ☒ No

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

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

The WWTP facility is covered, therefore the 150ft buffer is not required. The wastewater treatment plant site is more than 150 feet from the property boundary. The subsurface irrigation fields are a minimum of 10 feet from the property boundaries. See Attachment F – Buffer Zones.

C. Other actions required by the current permit

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

☐ Yes ☐ No

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

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

3. Grit disposal

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☒ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

4. *Grease and decanted liquid disposal*

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

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

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☐ No

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

TXR05 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:

4. *Existing coverage in individual permit*

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

☐ Yes ☐ No

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

5. *Zero stormwater discharge*

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

☐ Yes ☐ No

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

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

6. Request for coverage in individual permit

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

☐ Yes ☐ No

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

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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.

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

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

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

☐ Yes ☒ No

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

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: To be determined

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

Facility Operator's License Number: To be determined

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☒ Other Treatment Process: Temporary storage of waste activated sludge, then hauled to another permitted WWTP for treatment and disposal.

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Handler or Preparer	Bulk	NA	Domestic Septage: pH	N/A: Trasporrted to another facility for further processing

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Transported to another permitted WWTP for treatment and disposal.

D. Disposal site

Disposal site name: To be determined

TCEQ permit or registration number: To be determined

County where disposal site is located: To be determined

E. Transportation method

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

Name of the hauler: To be determined

Hauler registration number: To be determined

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: 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:

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.

D. Site development plan

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

Attach the following documents to the application.

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

  Attachment: Click 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 54)

A. Additional authorizations

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

☐ Yes ☒ No

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

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Peter Herzog

Title: Manager

Signature: _____

Date: 5/16/25

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

There is no wastewater CCN for the area of the site. The City of Taylor CCN is less than 3 miles from the property, the site has been de-annexed from the City of Taylor's ETJ. There are two pending permits for wastewater treatment facilities within 3 miles, however these are privately owned and serve only the collection systems associated with the developments. The CCN, ETJ and WWTP maps have been included in Attachment G.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. *Utility CCN areas*

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

☐ Yes ☒ No

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.

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☒ Yes ☐ No

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

Attachment: G

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: G

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: G

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☒ No

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

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

A. Current organic loading

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

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

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

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

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Mobile home park	0.030	250
Restaurant	0.0078	1200

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Other	(Retail) 0.0022	800
TOTAL FLOW from all sources	0.04	
AVERAGE BOD_5 from all sources		465

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

A. Existing/Interim I Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 100

Total Suspended Solids, mg/l: 100

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: NA

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

☒ Other: Not required

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: G

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☒ Yes ☐ No

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

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

According to the FEMA National Flood Hazard Layer WMS, no flood zones in the immediate vicinity of the facility. See Attachment G

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text.

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

B. Wind rose

Attach a wind rose: Attachment G

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: G

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

Section 3. Classified Segments (Instructions Page 63)

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Section 2. Data Collection (Instructions Page 65)

Table 2.1(1) - Stream Transect Records

Section 3. Summarize Measurements (Instructions Page 65)

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: Click to enter text.

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Hulled Bermuda Grass	9.05 acres	40,000	Y
Cereal Rye Grain or Oats seeded in the winter months	9.05 acres	40,000	Y

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

Table 3.0(2) – Storage and Evaporation Ponds

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

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

- ☐ Yes ☒ No

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

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

FEMA National Flood Hazard Layer WMS. See Floodplain Map in Attachment H.

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

Subsurface drip irrigation will require no tailwater control. Rainfall run-on will be diverted to storm sewer and only rainfall actually falling onto surface of subsurface drip irrigation field will drain overland by sheet flow and natural topography.

Section 5. Annual Cropping Plan (Instructions Page 67)

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

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

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

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

- 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
34248	Domestic	Y	Open	Separation distance > 2000 ft.

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

Attachment: H

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: H

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: Click to enter text.

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

A. Soil map

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

Attachment: H

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: Not applicable – The subsurface irrigation system has been designed to the most stringent standard in order to accommodate for all soil conditions and limitations.

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
BrB—Branyon Clay 1 to 3 % slopes	80 inches	Moderately well drained	0.17	D
BrkB—Branyon-Krum 1 to 3 percent slopes	80 inches	Moderately well drained	0.17	D

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☐ Yes ☒ No

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

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

Table 3.0(5) – Effluent Monitoring Data

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

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

Section 1. Surface Disposal (Instructions Page 71)

Section 2. Edwards Aquifer (Instructions Page 72)

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 73)

Section 2. Edwards Aquifer (Instructions Page 73)

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

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

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

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

Section 1. Administrative Information (Instructions Page 74)

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

B. FERMA Enterprises, LLC Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☒ Yes ☐ No

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

Click to enter text.

C. Owner of the subsurface area drip dispersal system: FERMA Enterprises, LLC

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

☒ Yes ☐ No

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

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: FERMA Enterprises, LLC

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

☒ Yes ☐ No

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

Click to enter text.

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

A. Type of system

☒ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: 9.05

Infiltration Rate, in inches/hour: 0.17

Average slope of the application area, percent (%): 1 to 3

Maximum slope of the application area, percent (%): 5

Storage volume, in gallons: 130,200

Major soil series: BrB—Branyon clay and BrkB—Branyon-Krum complex

Depth to groundwater, in feet: More than 80 inches

C. Application rate

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

☒ Yes ☐ No

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

Hydraulic application rate, in gal/square foot/day: 0.1 gpd

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

D. Dosing information

Number of doses per day: One

Dosing duration per area, in hours: To be determined

Rest period between doses, in hours: To be determined

Dosing amount per area, in inches/day: To be determined

Number of zones: 1

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

☐ Yes ☒ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

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

Attachment: I

B. Soil evaluation

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

Attachment: Not applicable – The subsurface irrigation system has been designed to the most stringent standard in order to accommodate for all soil conditions and limitations.

C. Site preparation plan

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

Attachment: I

D. Soil sampling/testing

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

Attachment: I

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

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

☐ Yes ☒ No

B. Flood map

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

Attachment: I

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

A. Buffer Map

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

Attachment: I

B. Buffer variance request

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

☐ Yes ☒ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 75)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

Table 4.0(1) – Toxics Analysis

Section 2. Priority Pollutants

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

Table 4.0(2)B – Volatile Compounds

Table 4.0(2)C – Acid Compounds

Table 4.0(2)D – Base/Neutral Compounds

Table 4.0(2)E - Pesticides

Section 3. Dioxin/Furan Compounds

Table 4.0(2)F – Dioxin/Furan Compounds

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

Section 2. Toxicity Reduction Evaluations (TREs)

Section 3. Summary of WET Tests

Table 5.0(1) Summary of WET Tests

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 87)

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

Table 6.0(1) – Parameters Above the MAL

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

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 90)

Section 2. Proposed Down Hole Design

Table 7.0(1) – Down Hole Design Table

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

Section 4. Site Hydrogeological and Injection Zone Data

Section 5. Site History

TECHNICAL REPORT 1.0

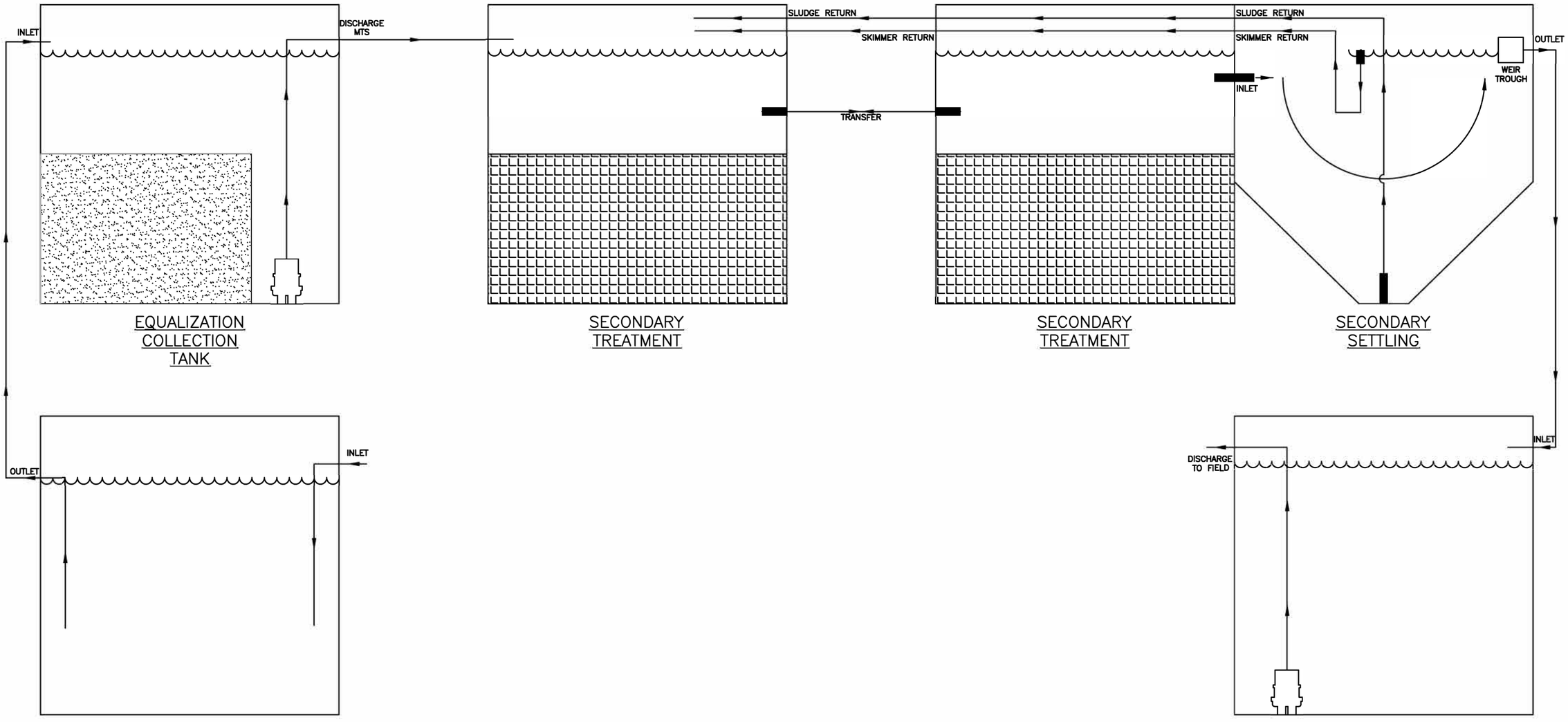
Attachment F

Process Flow Diagram

Site Drawing

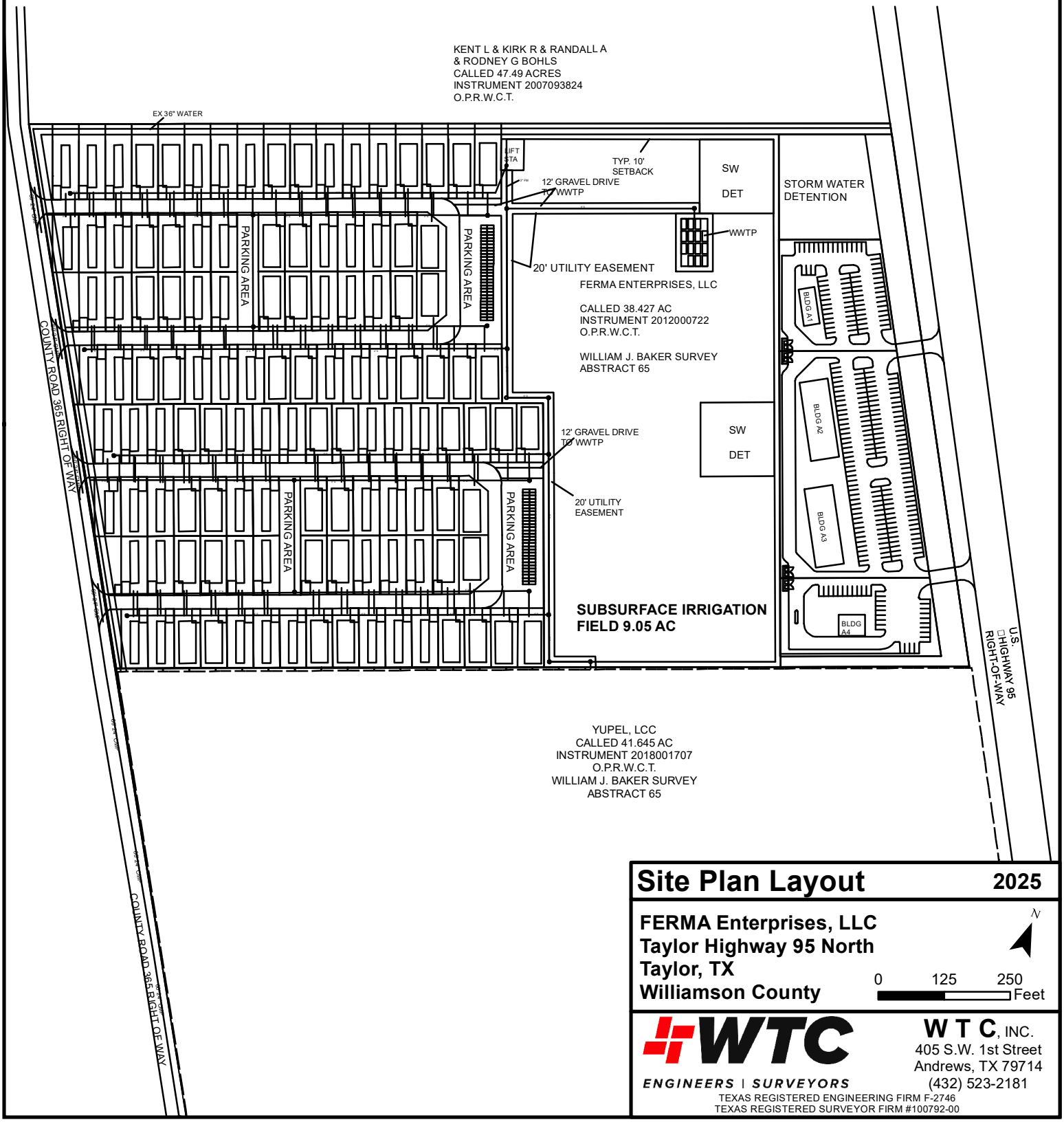
Buffer Zones Map

Site Service Area



HOOT SYSTEMS, LLC
www.hootsystems.com
Install A Hoot Don't Pollute

DESCRIPTION:	DATE:	DRAWN BY:	CHECK BY:	SCALE:	PART #
HOOT SYSTEMS, LLC – 20.0 IFAS MTS TREATMENT SYSTEM	3/15/2023	AY	TC	N.T.S.	PROCESS FLOW



Site Plan Layout

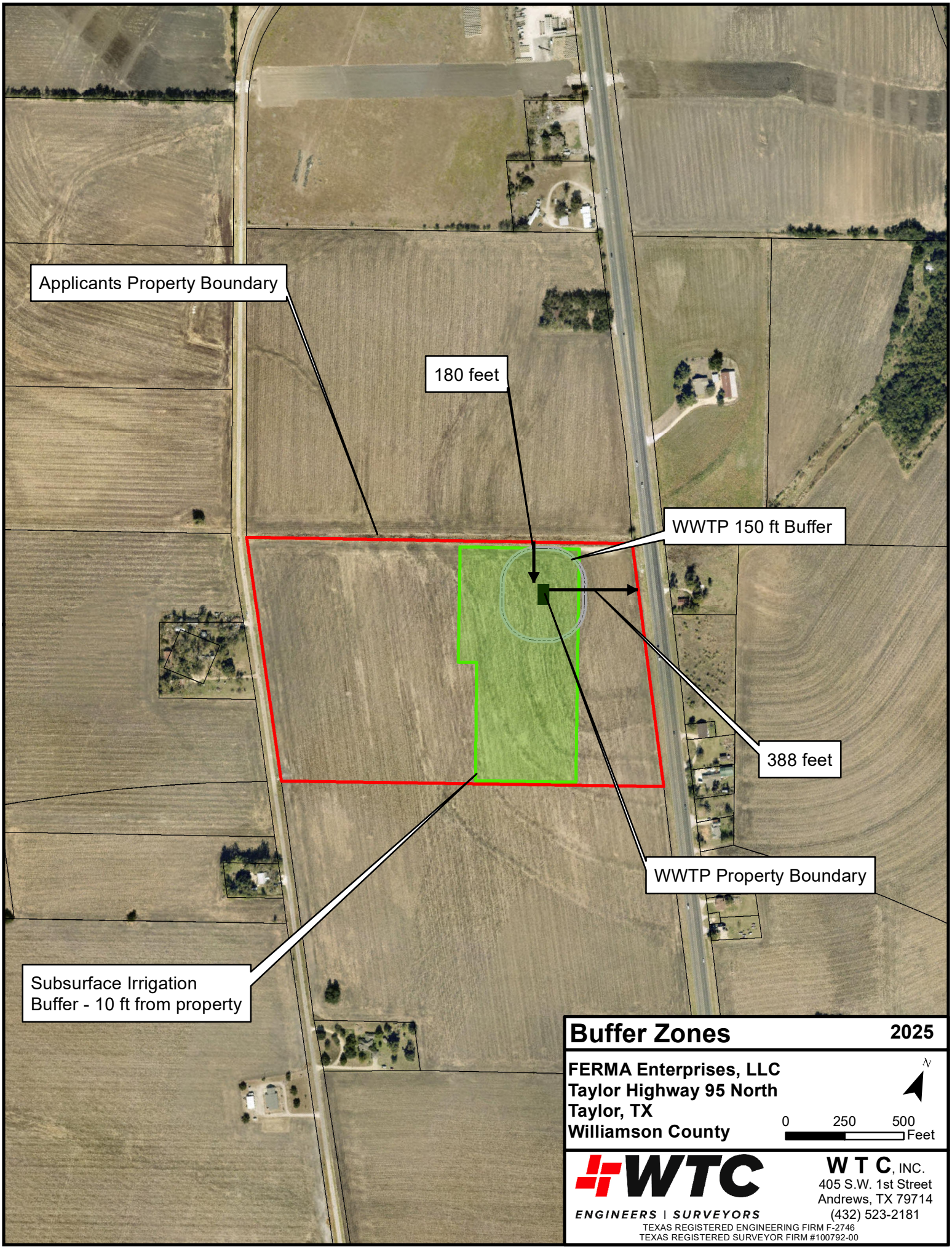
2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 125 250 Feet

WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
ENGINEERS | SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Buffer Zones

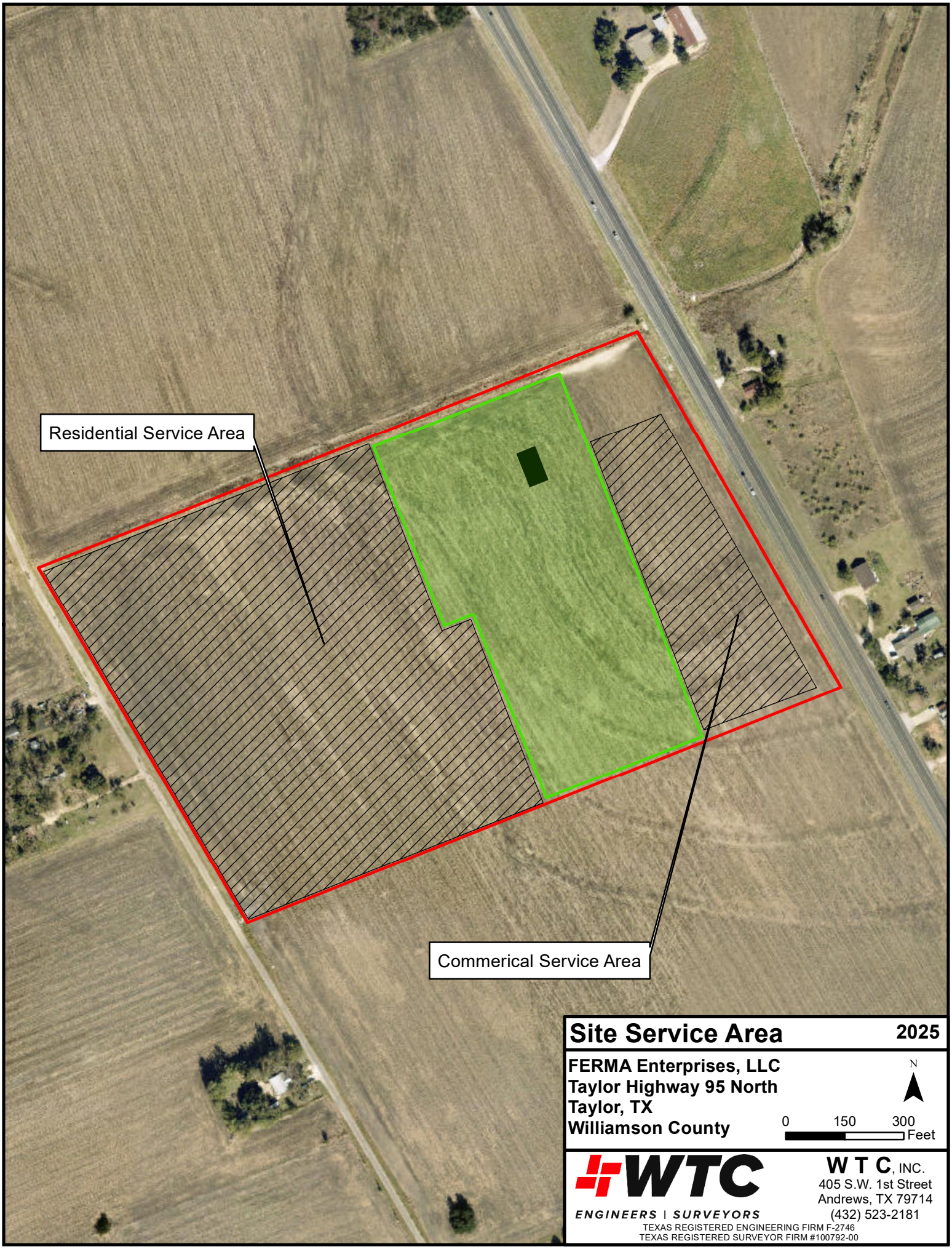
2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 250 500 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Site Service Area

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 150 300 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

TECHNICAL REPORT 1.1

Attachment G

CCN Map

Wastewater Treatment Plant Map

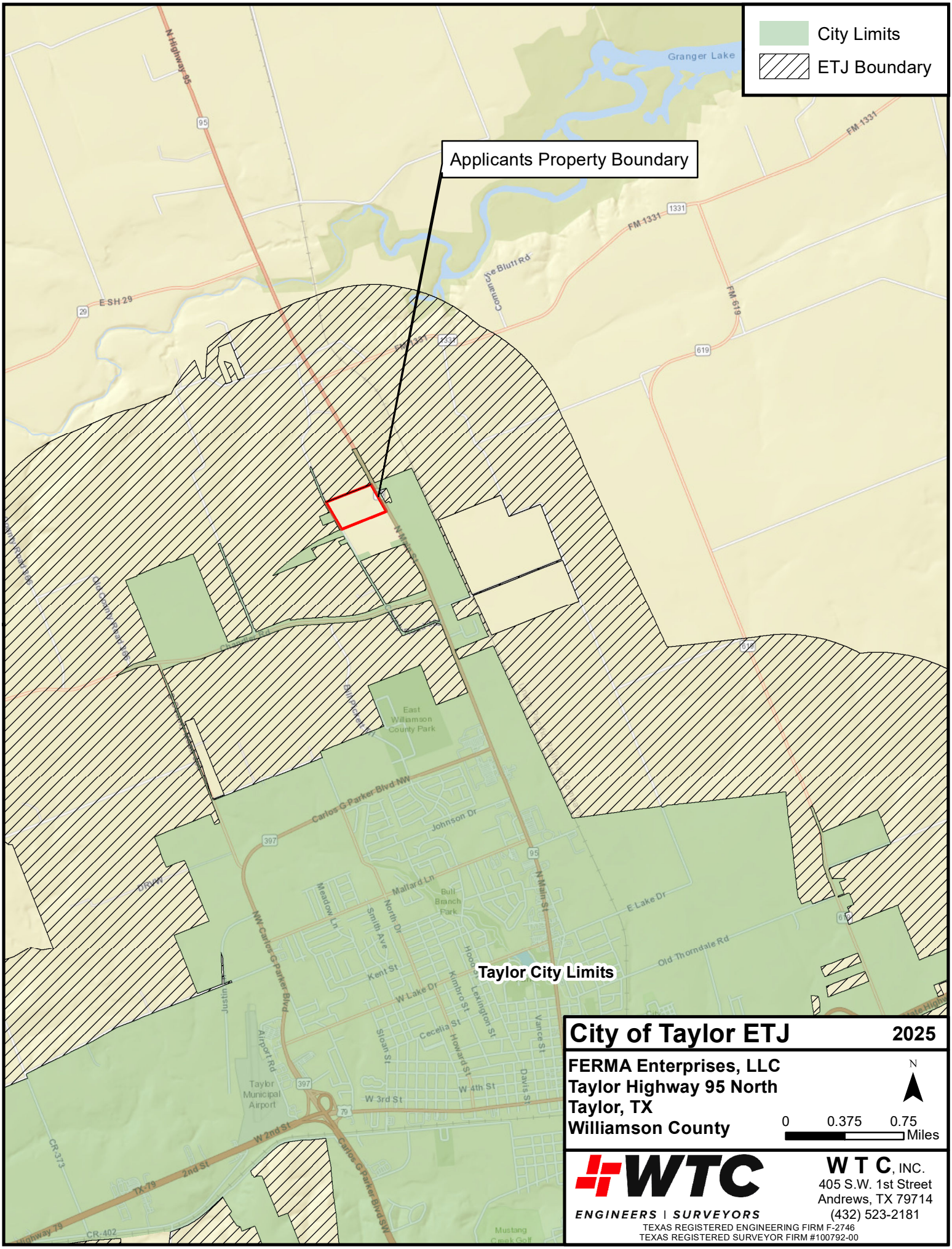
City of Taylor Correspondence

Wastewater Treatment Plant Layout Drawing

Design Calculations

Windrose

Sewage Sludge Solids Management Plan



City of Taylor ETJ

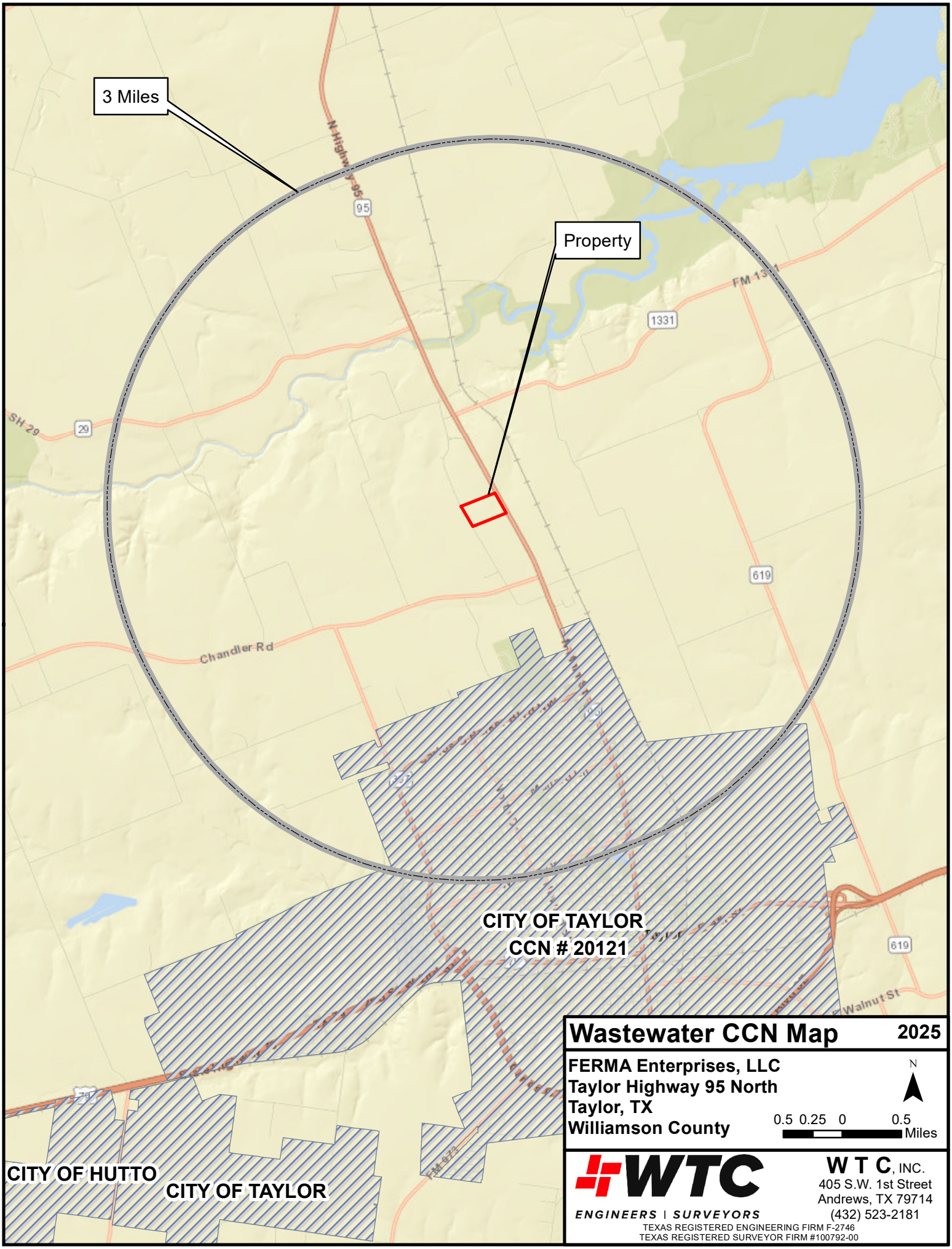
2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 0.375 0.75 Miles

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Wastewater CCN Map

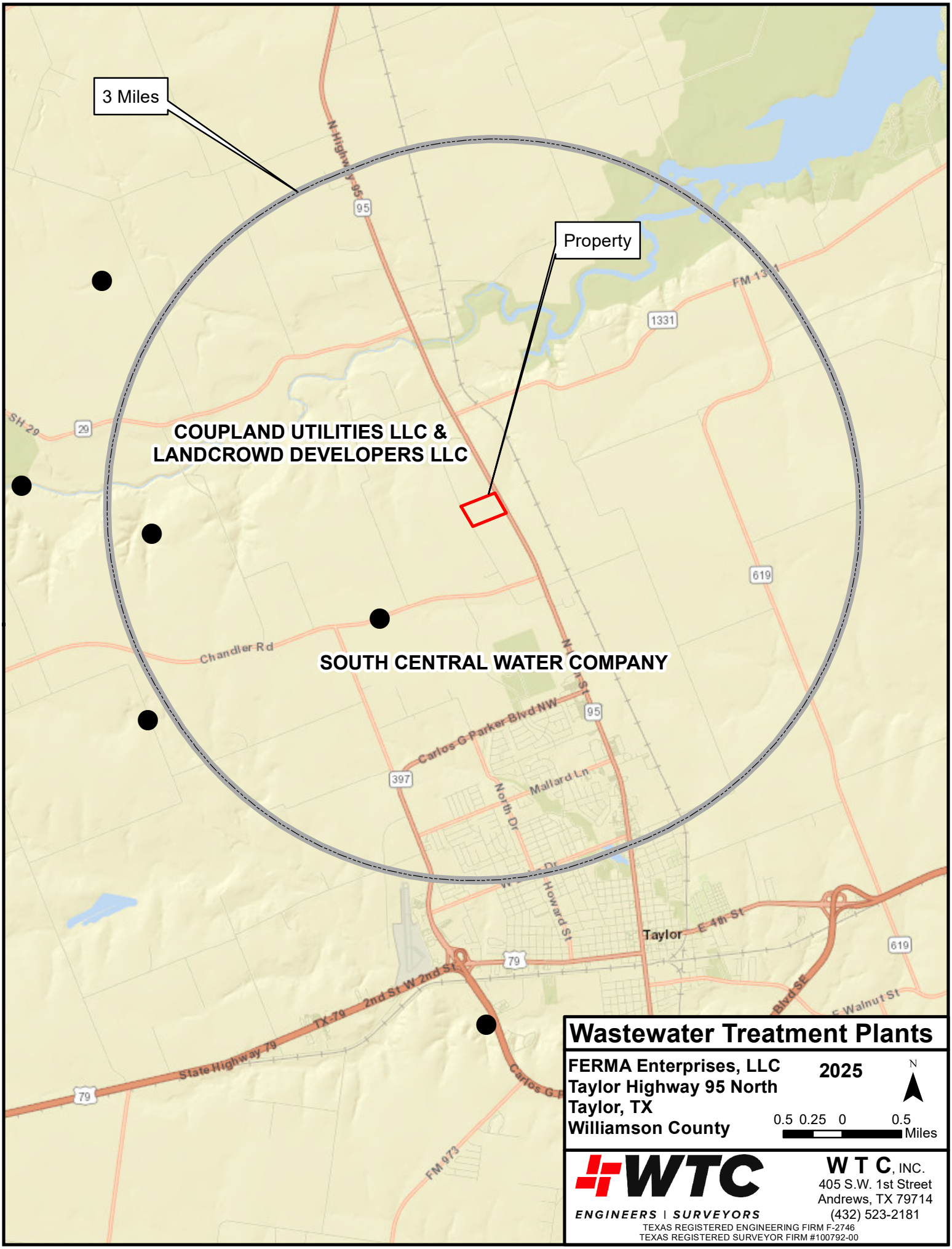
2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0.5 0.25 0 0.5 Miles

WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
ENGINEERS | SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Wastewater Treatment Plants

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

2025

N

0.5 0.25 0 0.5 Miles

WTC
ENGINEERS | SURVEYORS

W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181

TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN111849915
Name: COUPLAND UTILITIES WWTF
Primary Business: TREATMENT OF DOMESTIC WASTEWATER
Street Address: No street address on file.
County: WILLIAMSON
Nearest City: TAYLOR
State: TX
Near ZIP Code: No near zip code on file.
Physical Location: APPROXIMATELY 4700 FT NE OF THE INTERSECTION OF CR 366 N AND SH 29 E

Affiliated Customers - Current

Your Search Returned **2** Current Affiliation Records (View Affiliation History ...)

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-2 of 2 Records

CN Number ▲	Customer Name	Customer Role(s)	Details
CN606204345	COUPLAND UTILITIES LLC	OWNER OPERATOR	⇨
CN606204352	LANDCROWD DEVELOPERS LLC	OWNER OPERATOR	⇨

Industry Type Codes

Code	Classification	Name
No NAICS or SIC Codes on file.		

Permits, Registrations, or Other Authorizations

There are a total of **2** programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-2 of 2 Records

Program ▲	ID Type	ID Number	ID Status
WASTEWATER	EPA ID	TX0145351	ACTIVE
WASTEWATER	PERMIT	WQ0016446001	PENDING

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN111935979
Name: WILCO MUD 52
Primary Business: WASTEWATER UTILITIES
Street Address: No street address on file.
County: WILLIAMSON
Nearest City: TAYLOR
State: TX
Near ZIP Code: 76574
Physical Location: THE POINT OF DISCHARGE EFFLUENT TRAVELS THROUGH AN EXISTING DRAINAGE DITCH FOR APPROX 2 406.88 FT UNTIL THE DITCH TRAVELS UNDER BILL PICKETT TRAIL THEN EFFLUENT WLL THEN TRAVEL THE NATURAL WATER COURSE FOR 2 873.12 FT WHICH WILL END THE 1 STREAM MILE

Affiliated Customers - Current

Your Search Returned **1** Current Affiliation Records (View Affiliation History ...)

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-1 of 1 Records

CN Number	Customer Name	Customer Role(s)	Details
CN602602179	SOUTH CENTRAL WATER COMPANY	OWNER	

Industry Type Codes

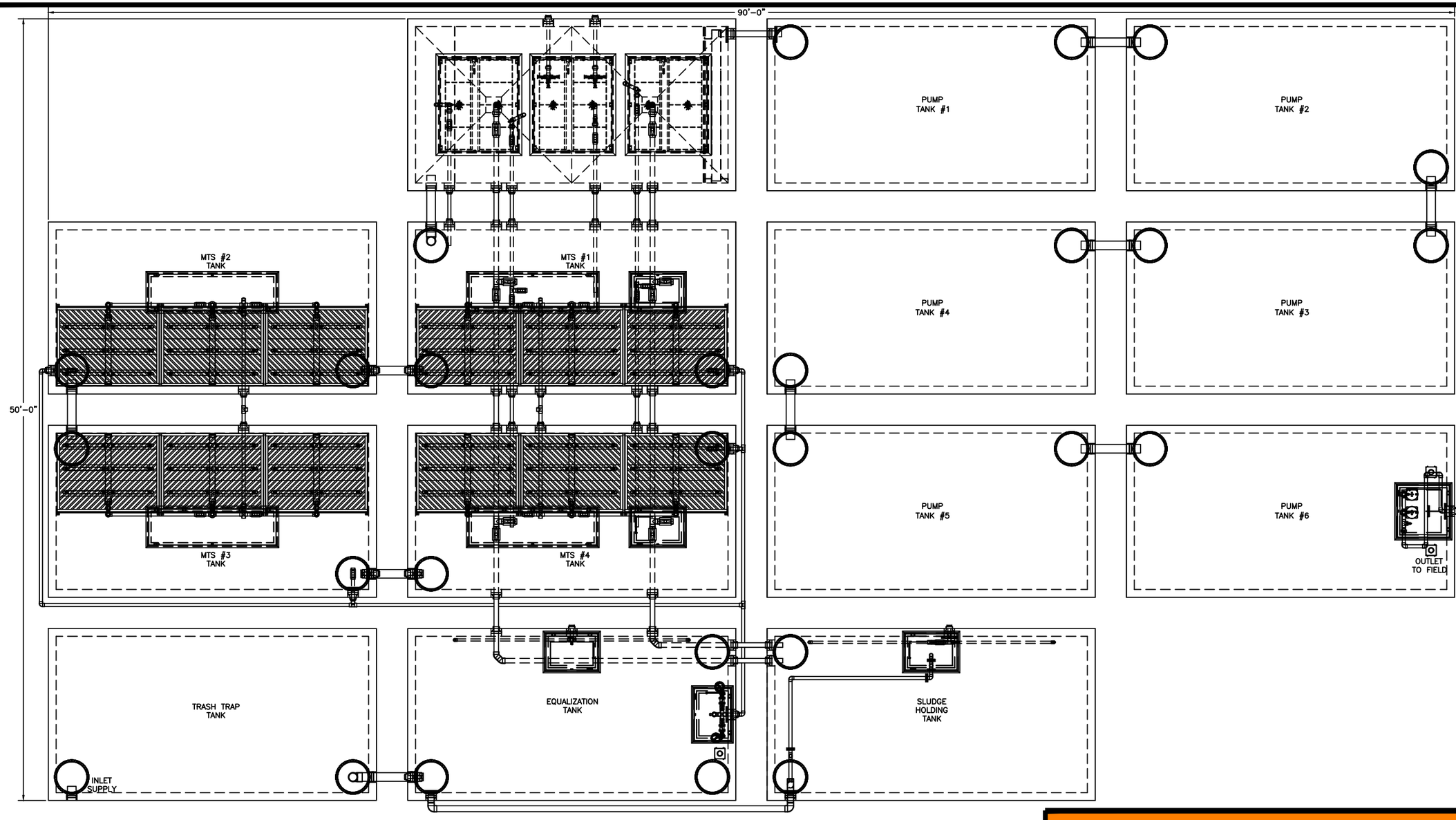
Code	Classification	Name
No NAICS or SIC Codes on file.		

Permits, Registrations, or Other Authorizations

There are a total of **2** programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-2 of 2 Records

Program ▲	ID Type	ID Number	ID Status
WASTEWATER	EPA ID	TX0145751	ACTIVE
WASTEWATER	PERMIT	WQ0016503001	PENDING



HOOT SYSTEMS, LLC
www.hootsystems.com
Install A Hoot Don't Pollute

DESCRIPTION:
HOOT SYSTEMS, LLC – "PROJECT NAME"
40K GPD IFAS MTS TREATMENT SYSTEM FOR 500 BOD

PART #

OVERVIEW LAYOUT

DATE:	*DRAWN BY:*	*CHECK BY:*	*SCALE:*
8/18/2025	AY	MC	N.T.S.

Herzog - 40,000 GPD at 465 mgl BOD5

CFM Calculations

	ppm	Gallons	Rate	Lbs.
Lbs. of BOD_5/D	465	40,000	8.34E-06	155.1
Lbs. NH_3/D	100	40,000	8.34E-06	33.4

	O_2 rate per Lb.	Lbs. of BOD_5	Total Lbs. Needed
O_2 Needed per lb of BOD_5	2.5	155.1	388
O_2 Needed be Lb of NH_3	4.6	33.4	153
Total lbs. of 0_2 Needed			541
Cubic Feet of Air Needed (58.2 CF = 1 lb. of 0_2)			31,502
Minutes of blower run time per day			720
CFM Needed @ 100% uptake			44

	Fine Air
Water Depth (feet)	14.0
% Oxygen transfer efficiency (0.75 coarse, 2.0 fine air)	28.0
Actual CFM needed	156.3
Additional Air Needed for Air Lift	0.0
Total CFM Needed	156.3

Basin Sizing Calculations

V_A = (BOD x Q x 8.34)/BLF where:

V_A = Volume of Aeration Basin in 1,000 ft^3 Q= Influent Flow in MGD

BOD Loading in ppm BLF = BOD_5 Loading Factor

	Design
ppm of BOD_5/D	465
Gallons	40,000

Treatement Level	10/10	30/30
Desired BLF	10	15
Cubic Feet Needed at above BLF	15,512	10,342
Total Gallons Needed	116,033	77,355
IFAS & EQ Credit%	87,025	58,016
Actual Gallons Provided	84,000	84,000
Effective BLF Rate <15	13.8	13.8

Fine Diffuser Requirement Calculations

CFM	156.3
Rate Per Diffuser	4.34
Total Diffusers in castings	36

Diffuser Range = 2-8 CFM

Herzog Manufacture Homes A Project
Wastewater Treatment Plant Specifications

General Specifications

The contractor shall furnish and install one combined fixed film, activated sludge facility with all-necessary parts and equipment as described in the following specifications. The basic plant shall consist of pretreatment, aerated flow equalization, aeration, with fix film, final clarification, and it shall be equipped with motors, blowers, controls, housing diffuser bars, effluent weir, and other necessary internal piping, mechanical equipment and electrical controls. Tanks and chambers shall be constructed of reinforced precast concrete with a 5,000 PSI, 28-day compression strength.

Secondary treatment shall be accomplished in the aeration chamber of the facility. All incoming wastewater shall enter and be retained in the aeration chamber for no less than 24 hours. (Retention time will depend on sewer strength.) Air shall be introduced along one wall near the bottom to produce a mixing and rolling action in the tank. The spiral rolling action created by the introduction of air shall insure thorough mixing of the incoming organic material with the activated sludge to prevent short-circuiting of the flow and assure adequate retention of all organic materials.

Final treatment of the wastewater shall be accomplished in a clarification chamber. The effective holding capacity of the clarifier shall be calculated after excluding the lower two-thirds, by height, of the hopper(s) and shall still be of sufficient volume to provide in excess of four hour retention of the daily flow. The chamber shall be designed so that the clarifier will successfully perform its function of solids separation without hydraulic upset.

Capability of a plant of this type to perform as outlined, when built by an approved manufacturer, shall be verified by an independent testing laboratory. The manufacturer shall make data available to the regulatory agency, customer, consultant and contractor as required.

Operating Conditions

The wastewater treatment facility shall be a Hoot Model 40.0 MTS. This system is capable of treating 40,000 gallons per day of high strength wasterwater. This facility shall be designed and built to serve a population equivalent of 560 persons with a total loading and treatment capability of 155 pounds of five day BOD per day.

Primary Tank

A primary tank shall be used for primary separation of the influent sewage. The primary tank shall be properly baffled to prevent short-circuiting of the flow and to hold back settled and floating material to prevent its entry to the aeration chamber. Two inspection covers shall be installed on the lid of the trash trap. They shall be located above the inlet and the outlet of the tank to permit access and inspection. Total holding capacity of the trash trap shall be 21,000 gallons.

Aerated Flow Equalization Chamber

General

An aerated flow equalization facility shall be installed to provide temporary storage capability for anticipated surges in the daily wastewater flow. The facility shall be designed to protect the hydraulic reliability of the secondary wastewater treatment system when the peak to average diurnal flow ratio exceeds four to one or when a significant runoff period of less than eighteen hours per day is encountered. The aerated flow equalization facility shall be designed to precede a wastewater treatment plant of 21,000 gallons to handle peak load periods.

The flow equalization facility shall be located downstream of preliminary treatment equipment such as pretreatment chambers, grit and other debris will be removed by Trash Tank system. The facility shall be located upstream of all secondary wastewater treatment plant tankage so that all raw wastewater flow shall pass into the equalization tank for controlled application to the aeration tanks.

EQ Mechanical Equipment - Assuming 240 volt, 3 phase - can be changed

Aerobic conditions shall be maintained within the flow equalization facility at all times. Aeration equipment shall include one model URAI-33 Roots blowers or equivalent. The blower shall provide 50 CFM of free air at the rated operating pressure of 5.0 PSI. The blower unit shall be provided with inlet air filter/silencer, discharge pressure relief valve and discharge flexible coupling connector to the air header assembly. If more than one blower is needed, check valves shall be included in the discharge piping. Blower connection to the drive model motor(s) shall be with conventional v-belt power transmission drive assembly.

Two seventeen hundred fifty RPM, 230 volt, 3 phase, 60 Hertz, 3.0 horsepower, TEFC electric motor shall be used to drive the blower. The motor shall be mounted on a baseplate with an adjustable slide base for ease of motor alignment and belt tension adjustment.

Welded Aluminum Equipment Frame

Frame shall be 2" X 2" ¼" aluminum. Mounting plate shall be ¼" reinforced metal with rubber mounts, to absorb shock and noise. Belt guards will be installed for safety purposes. Adjustment slide base for ease of motor alignment and belt tension adjustment shall be furnished.

EQ Aeration

Air shall be injected into the tankage through diffusers containing a minimum of one air diffusion orifice for each five inches of equalization tank length. A drop pipe to each diffuser shall be connected to the common air header by means of PVC Schedule 80 union. One air adjustment valve shall be provided for each drop pipe upstream of the disconnect to enable a proper balance of air distribution to be obtained even when a diffuser has been removed for inspection.

Flow EQ Discharge Pumps

Duplex alternating Gould's model 3886 pumps wired for 230 volt 3 phase 60 Hertz operation shall be included to apply the flow equalization tank influent to the inlet aeration tankage. Each of the pumps shall be capable of delivering 25 GPM against a total dynamic head of 15 feet. The pump motors shall be 1/2 horsepower 1750 RPM with motor windings sealed against moisture and shall operate in clean, high dielectric oil for lubrication and cooling. These pumps will be time dosed.

EQ Electrical Controls

The flow equalization tank pumps shall be activated automatically by level control monitors. The level controls shall be designed to automatically alternate the pumps at each cycle to equalize wear. An override control shall activate the lag pump automatically if liquid level in the equalization tank rises six inches above the activating point of the lead pump. In addition, a flashing light high water alarm shall be activated if liquid level rises six inches above the activating point of the lag pump. The panel will be furnished with a timer that can be adjusted both on and off in seconds, minutes or hours

Electrical controls shall be mounted within a weatherproof Nema IV enclosure. Controls shall include: duplex pump motor control center, 230 volt 3 phase, control transformer, electrical alternator, visible pump run indicator, reset button for overload or high-water alarm, and with "Hand-Off-Auto" selector switches.

Secondary Fixed Media Aerobic Treatment

Aeration Chamber

The aeration chamber shall have a capacity of 84,000 gallons to provide the required dentition time of the incoming wastewater flow. The chamber shall be of sufficient size to provide a minimum of eighty cubic feet of tank capacity per pound of applied BOD. Fillets shall be installed in the bottom of the chamber parallel to the treatment flow to ensure uniform tank roll and prevent deposition of solids. Overall design of the chamber shall be such that effective mixing shall be maintained to provide optimum treatment.

MTS Mechanical Equipment

Air required for the treatment process shall be provided by 2 model URAI-56 Roots make. The blowers shall be of the rotary positive displacement type and shall provide 300 CFM of free air at the rated operating pressure of 7.0 PSI. The blower units shall be provided with inlet air filter/silencers discharge pressure relief valve and discharge flexible coupling connector to air header assembly. Since more than one blower is provided, check valves shall be included in the discharge piping. Blower connection to the drive motors shall be with conventional v-belt power transmission drive assembly. Blowers must have at least 2 belts

(2) 1,750 RPM, 240-volt, 3 phase, 60 Hertz, 15 horsepower, totally enclosed fan cooled electric motor(s) shall be used to drive the blower(s). When operating at the rated horsepower the motor(s) shall reach a maximum speed that shall exceed ninety-seven percent of the reference synchronous speed. The motor(s) shall for the facility shall be designed and rated for continuous duty application and shall not overload or exceed motor nameplate ratings when operating as outlined for this facility.

Welded Aluminum Equipment Housing Frame

Frame shall be 2" X 2" ¼" aluminum. Mounting plate shall be ¼" reinforced metal with rubber mounts, to absorb shock and noise. Belt guards will be installed for safety purpose Adjustment slide base for ease of motor alignment and belt tension adjustment shall be furnished.

MTS Electrical Controls

Electrical controls shall be mounted in a weatherproof cabinet (NEMA 4X). The cabinet shall be equipped with a locking device to restrict access to the controls to authorized persons. Controls shall include: 240 -volt, 1 phase motor control center with motor starter, motor circuit breaker and thermal overload protection. The motor control center shall be factory-wired to the motor with a resilient power cable and tested under actual operating conditions prior to shipment to the jobsite.

MTS Smart Control and Operation - Optional

Controls will feature Duplex Danfoss Aquadrive Variable Frequency Drive Controllers that are communicate via a 4-20 MA signal to the Insight D.O. Spectrum analyzer as described below. These drives shall generate 3 phase power to operate the variable frequency motors.

The sensor communicates to a central control panel through via 4-20 outputs from the analyzer.

The D.O. Sensor also reports into the control panel and communicates directly to the Variable Frequency Danfoss VLT Aquadrives. The Danfoss Aquadrive can be directly programmed to maintain a set of bracketed set points. The use of the D.O. sensor and VFD to operate the system only provides the required air to properly operate the system at the performance level of treatment that is required. This treatment strategy makes the process as energy efficiently as possible, while allowing for the system to automatically increase or decrease the blower output based on sewage strength, flow, temperature and concentration.

Insite IG Model 1000 Dissolved Oxygen Analyzer - Optional

The Insite IG Model 1000 dissolved oxygen analyzer is a unique system that combines advanced electronics with a solid-state optical sensor. It features the Model 10 sensor which utilizes an optical technique that does not consume oxygen like all standard membrane sensors.

The Model 1000 Dissolved Oxygen Analyzer is a digital instrument designed for the continuous monitoring of dissolved oxygen in water and wastewater where parts per million accuracy is required. The instrument is designed to be used with the Insite IG Model 10 sensor. The unit will display dissolved oxygen content in 0.01 ppm resolution over a range of 0.00 to 3.99 ppm and 0.1 ppm resolution over a range of 4.0 to 20.0 ppm. Temperature is displayed in 0.1-degree Celsius increments over a 0.0 to 50.0 degree Celsius range or 1 degree Fahrenheit increments over a 32 to 122 degree Fahrenheit range.

The microprocessor based electronics of the Model 1000 analyzer provide a high degree of flexibility and ease of use. Calibration is not required on a routine basis, nor is calibration required after initial startup and commissioning. Two isolated analog outputs are standard. Three programmable set-point relays and one relay to control self-cleaning are also standard.

The sensor to be used with this analyzer is an optical type sensor that measures the fluorescence and quenching reactions of a ruthenium complex that is immobilized in a sol-gel matrix.

MTS Air Distribution Piping

Schedule 80 PVC piping and fittings shall be used throughout the air distribution system. Individual pipe unions, dresser couplings and flexible couplings with stainless steel clamps shall be provided as necessary in the air distribution system. Schedule 80 PVC shall be used within and between the tanks for maximum corrosion protection and longevity. Individual air control valves shall be installed in the air distribution piping as required to allow individual adjustment of each separate element within the system.

Primary air distribution shall be provided through a schedule 80 PVC air header. The air header shall have individual drop pipes connected to the header assembly for air supply to individual diffuser assemblies. Each drop pipe may be equipped with an air adjustment valve to control airflow individually to each diffuser assembly. In addition, a quick release coupling or union shall be provided for each drop pipe and diffusers assembly downstream from the air adjustment valve.

Fine Air Diffusion System

Diffusers shall be constructed of polyvinyl chloride (PVC) plastic and shall be designed to insure uniform mixing within the aeration chamber. Fine air bubble distribution effected by the diffusers shall be adequate to provide all oxygen necessary for the Aerobic Digestion process while maintaining an acceptable dissolved oxygen level in the final plant effluent. This is achieved with Stamford Scientific International AFTS 2100 62 mm Snappy Saddle Diffusers.

Fixed Media Specifications

Media modules are fabricated from PVC sheets and completely corrugated at an angle of 60 degrees from the horizontal to form a cross-corrugated pattern between adjacent sheets, creating a continuous and horizontal redistribution of air and wastewater.

Each Structured PVE Media Module shall be 100% crossflow and completely corrugated at an angle of 60 degrees for the horizontal to form a cross-corrugated pattern between adjacent sheets, providing a minimum of 180 mixing or redistribution points per cu. Ft. of module. Random, vertical or horizontal media are not acceptable.

The flute height for each corrugation in the Structured PVC Media Module shall be 1.20 in. There shall be a minimum of 10 sheets per each 12-in. wide module.

Each Structured PVC Media Module must provide a minimum surface area of 31 sq. ft. / cu. Ft. with a minimum of 95% void-to-volume ratio.

NOTE: All diffuser assemblies MUST be installed along the length of the aeration chamber.

Clarification Chamber

A final clarification chamber shall be provided for secondary treatment of the daily flow. It shall have a total treatment capacity of 40,000 gallons (16,240 gallons) total. The effluent weir shall be of sufficient length to provide an overflow rate of 4,000 gallons per lineal foot per day and surface area of the tank shall provide a setting rate of 200 gallons per square foot per day.

An inlet baffle zone shall be provided at the flow inlet to the clarification chamber. All transfer turbulence shall be dissipated upstream of the inlet baffle and its performance shall be adequate to eliminate all turbulence downstream from the baffle. The area contained behind the baffle shall allow adequate capacity and retention for surfacing of all buoyant material entering the clarifier. The baffle shall extend above the surface and adequate distance to entrap all floating material and it shall extend below the transfer port a sufficient distance to eliminate passage of buoyant material or surface turbulence.

Flows shall be directed out of the inlet baffle zone into the hopper zone. All transfer shall be accomplished below the bottom of the inlet baffle into the upper one-third area of the hopper zone. In this zone sludge shall settle by gravity to the bottom of the hopper(s). Here settled sludge shall be returned to the aeration or pretreatment chamber by airlift pumping.

Clarified liquids shall be contained in the settling zone above the hopper area for gravity settling. From here they shall be hydraulically displaced to the outlet zone. The outlet zone shall consist of an adjustable sideplate effluent weir trough and outlet. The outlet baffle shall extend into the surface of the liquid to a point not exceeding three inches and shall extend above the surface an equal distance. The baffle shall run the entire length of the outlet zone and shall totally separate the surface liquids of the settling and outlet zones. Centered in the outlet zone parallel to the outlet baffle shall be an effluent weir trough. The trough shall be capable of being adjusted from end to end to provide adequate fall to the plant outlet and shall each be capable of being leveled from side to side and end to end to the level of the liquid surface in the chamber.

Airlift Sludge Return

PVC schedule 80 airlift sludge return shall be provided for the hopper(s) in the clarification chamber. Air shall be supplied to the airlift(s) through a secondary air distribution system connected to the main air header of the treatment plant. Individual air manifold piping shall be installed for each airlift and shall be equipped with a valve for fine adjustment or shut-off.

A removable cleanout plug shall be installed at the top of the vertical airlift pipe. Piping shall be arranged so that returned sludge is deposited in the aeration chamber at a point, which prevents short-circuiting, and with positive visible return. The airlift pump(s) shall be designed and manufactured of adequate size pipe and with sufficient air supply to provide a pumping rate in excess of the total daily flow. Air required to achieve this shall be provided in excess of that necessary for aeration, mixing and treatment. The legs shall be used to position the inlet correctly at the base of the hopper. Inlets that are cantilevered or cut out to rest on the bottom of the hopper will restrict sludge flow and shall not be considered.

Airlift Surface Skimmer

An airlift surface skimming system shall be installed in the settling zone of the clarification chamber(s). The airlift skimmer(s) shall be constructed of schedule forty galvanized or PVC pipe and fittings.

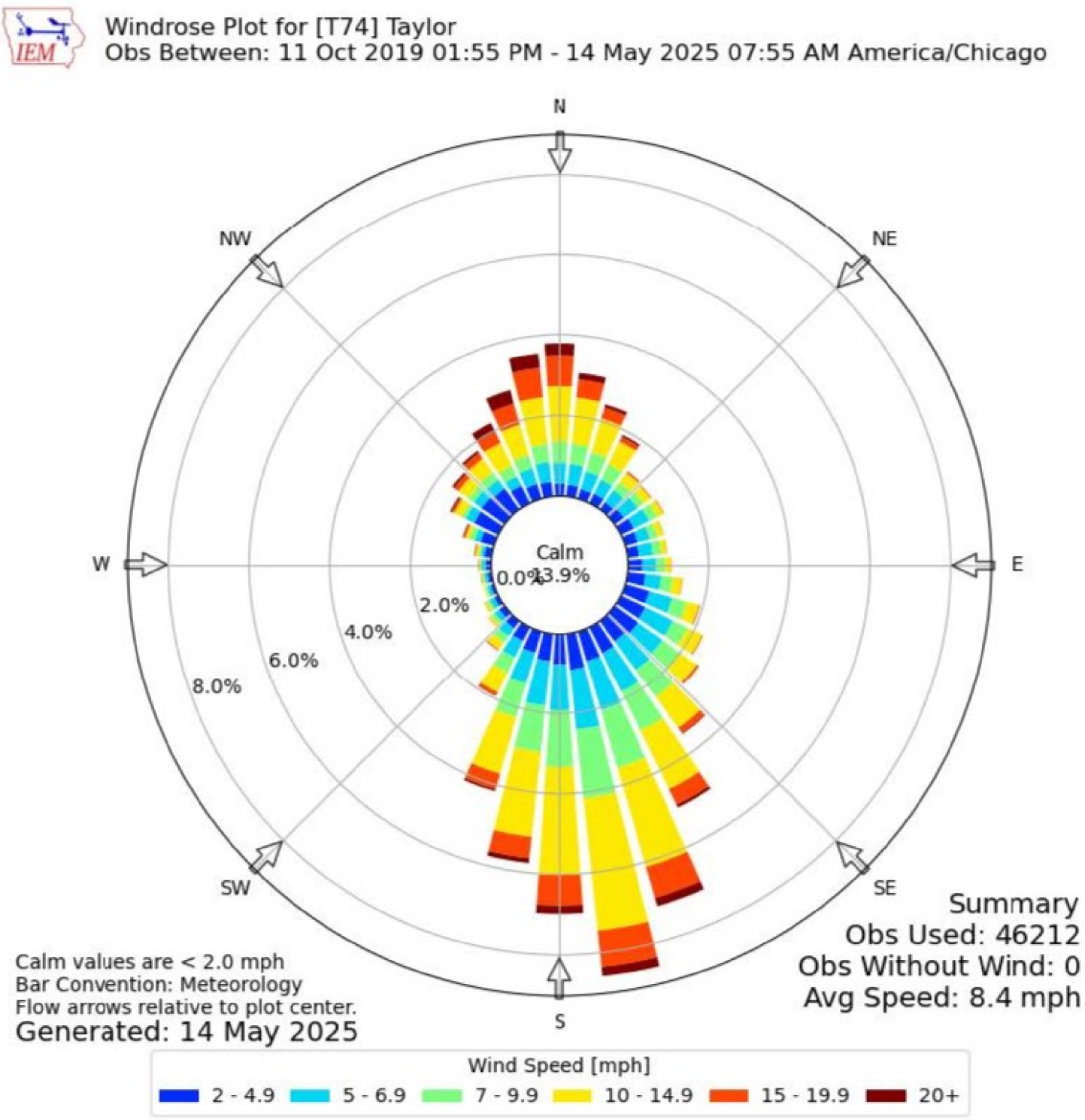
The skimmer inlet(s) shall be equipped with an adjustable cone. The inlet cone(s) shall be provided with attached flexible connector for installation and adjustment of the cone(s) on the airlift assembly.

A removable cleanout plug shall be provided at the top of the skimmer airlift pipe where it joins the horizontal discharge line. The discharge line shall return back to the aeration or pretreatment chamber for final discharge. The skimmer air supply shall be provided through a secondary air distribution system connected to the main air header of the treatment plant. Air adjustment/shut-off valve(s) will be installed in the skimmer air manifold supply line(s).

Effluent Pump Tank

An effluent pump tank shall be used for the collection of treated wastewater. The effluent pump tank will consist of a duplex effluent pump. The effluent pumps shall be capable of pumping the treated wastewater to the discharge location on the property. Total holding capacity of the effluent pump tank shall be 130,200 gallons. enough for 3 days of storage.

The pumps shall pump to a drip field. The proposed wastewater treatment plant is designed to treat down to BOD5 30 mg/l / TSS 30 mg/l and discharged to 140 mg/l approved proprietary drip management system.



Wind Rose

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

FERMA Enterprises, LLC
Taylor Highway 95 North

Wastewater Treatment Plant Subsurface Effluent Disposal

SLUDGE MANAGEMENT PLAN

1.0 DESIGN

Influent Design Flow = 0.040 MGD
Influent BOD Concentration = 465 mg/l
Sludge Holding Basin Volume = 21,000 gallons
Aeration Basin MLSS: 3,000 mg/l

2.0 SLUDGE PRODUCTION

Solids Generated	100 % Flow	75 % Flow	50 % Flow	25 % Flow
Pounds Influent BOD_5	155	116	78	19
Pounds of digested dry sludge produced *	NA	NA	NA	NA
Pounds of wet sludge produced	NA	NA	NA	NA
Gallons of wet sludge produced	NA	NA	NA	NA

*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD_5 at average temperatures and 2.0% solids concentration in the digester.

Sludge will be wasted from the RAS flow stream to the sludge holding basin. Sludge will be hauled to another WWTP for final treatment and disposal; supernatant will be decanted from the digester and returned to the facility headworks for treatment.

3.0 SLUDGE REMOVAL SCHEDULE

Solids Generated	100 % Flow	75 % Flow	50 % Flow	25 % Flow
Days between Sludge Removal	7	10	14	30

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. The calculated mean cell residence time (MCRT) for the digester storage volume of ____ gal will be approximately 73 days at 100% capacity and annual average digested sludge production of ___ ppd. The digested sludge will be transported by registered hauler via truck to a permitted landfill. (To be determined).

TECHNICAL REPORT 3.0

Attachment H

Floodplain Map

Annual Cropping Plan

Soils Map with Crops (Subsurface Irrigation)

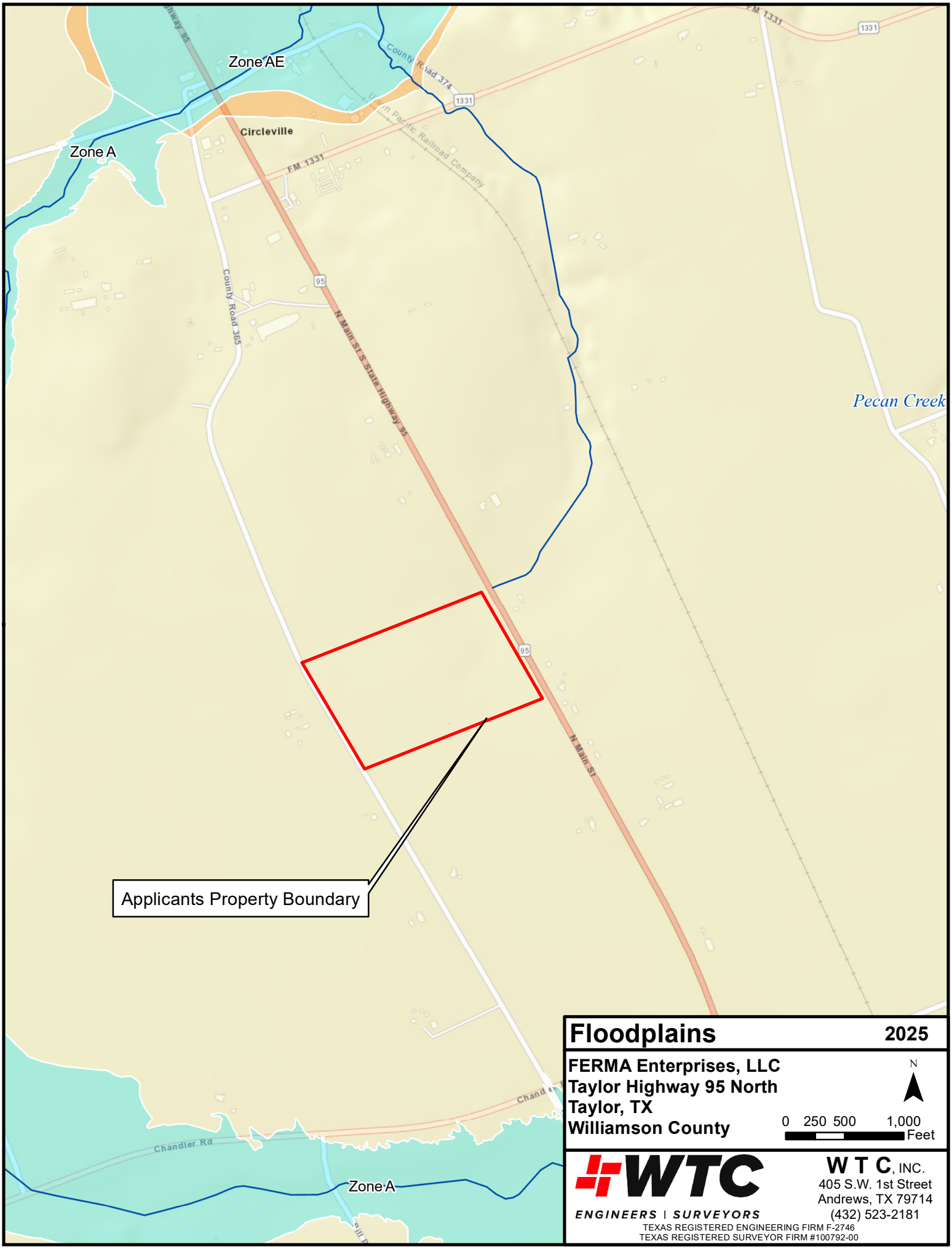
Well Map – 1 Mile

Well Map - ½ Mile

Well Information

Groundwater Quality Technical Report

Soil Data



Floodplains 2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 250 500 1,000 Feet

WTC ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

FERMA Enterprises, LLC
Taylor Highway 95 North

Wastewater Treatment Plant
Subsurface Effluent Disposal

ANNUAL CROPPING PLAN

1.0 INTRODUCTION

The primary use of the site will be to dispose of treated effluent from the Taylor Highway 95 North Wastewater Treatment Plant (WWTP). The land to be used is currently planted with corn and is typical of row crops in the Blackland Prairies Region of Texas. The TPWD Vegetation ID is 9307 (Common Name: Row Crops). This type includes all cropland where fields are fallow for some portion of the year. Some fields may rotate into and out of cultivation frequently, and year-round cover crops and tame hay fields are generally mapped as grassland. The property will be cleared and the subsurface irrigation areas will be converted into landscaped lawns that will allow public access from the Taylor High 95 North residential and commercial parks.

2.0 SOILS MAP AND CROPS

The entire site will be planted with perennial hybrid grass. A subsurface irrigation area of approximately 9.05 acres is planned for this site.

3.0 COOL AND WARM SEASON CROPS

The primary crop on this site will be a Coastal Bermuda or similar hybrid. Coastal Bermuda is a perennial species that grows during warmer months. A winter overseeding with winter rye grass (cereal rye grain or oats) will provide a 12-month growing season such that it will not be necessary to discontinue irrigating during winter months.

4.0 CROP YIELD GOALS

The grass will be grown as a means of managing the residual nutrients in the irrigated effluent. There is no anticipated yield or anticipate economic return for the grass grown. It is anticipated that this grass covering will be landscaped using lawn mowers that bag the grass clippings. The grass clippings will be properly disposed of or recycled.

5.0 CROP GROWING SEASON

The typical growing season for the Coastal Bermuda grass will be from late March through

October. The last cutting will likely occur in October. Once that has occurred, the field will be overseeded with winter rye grass that will begin its growth during October and be established by November with the coming of the first frost. This will end the growing season for the Coastal Bermuda grass. Once mowed in March rye will be easily displaced by the awakening Coastal Bermuda grass.

6.0 CROP NUTRITION REQUIREMENTS

Coastal Bermuda grass has a high capacity for taking up nitrogen. Research shows that this can be up to 242 lb/acre/year. Winter rye grass can take up an additional 60 lb/acre/year in nitrogen. The anticipated annual application of nitrogen from the Taylor Highway 95 North WWTP is 195 lb/acre. The annual loss of nitrogen due to volatilization and denitrification is approximately 20%. The available nitrogen will be approximately 156 lb/acre/year from the irrigated wastewater. Typically, a supplemental addition of nitrogen fertilizer will be needed at a rate of approximately 95 lb/acre/year. However, the anticipated 156 lb/acre from the effluent disposed will provide ample nitrogen for good grass production and is well below the potential for nitrogen uptake by the Coastal Bermuda and winter rye grass.

A small addition of phosphorus probably will be needed to enhance the soil production. Supplemental potassium will be needed at a rate of about 200 lb/acre/year.

7.0 ADDITIONAL FERTILIZER REQUIREMENTS

The pH in the soil is anticipated to be neutral to greater than 7.0. The pH can be monitored annually during the growing season by the Owner to check whether other amendments such as sulfur might be needed and added at that time. Additional minerals such as magnesium may be needed and added at a rate of approximately 10 lb/acre/year.

8.0 MINIMUM/MAXIMUM HARVEST HEIGHTS (FOR GRASS CROPS)

There are various agricultural recommendations for good grass production. Current recourses and local southern growing practices indicate that the Coastal Bermuda grass should be cut no lower than about 2.5 inches. This will help the grass recover quickly.

9.0 SUPPLEMENTAL WATERING REQUIREMENTS

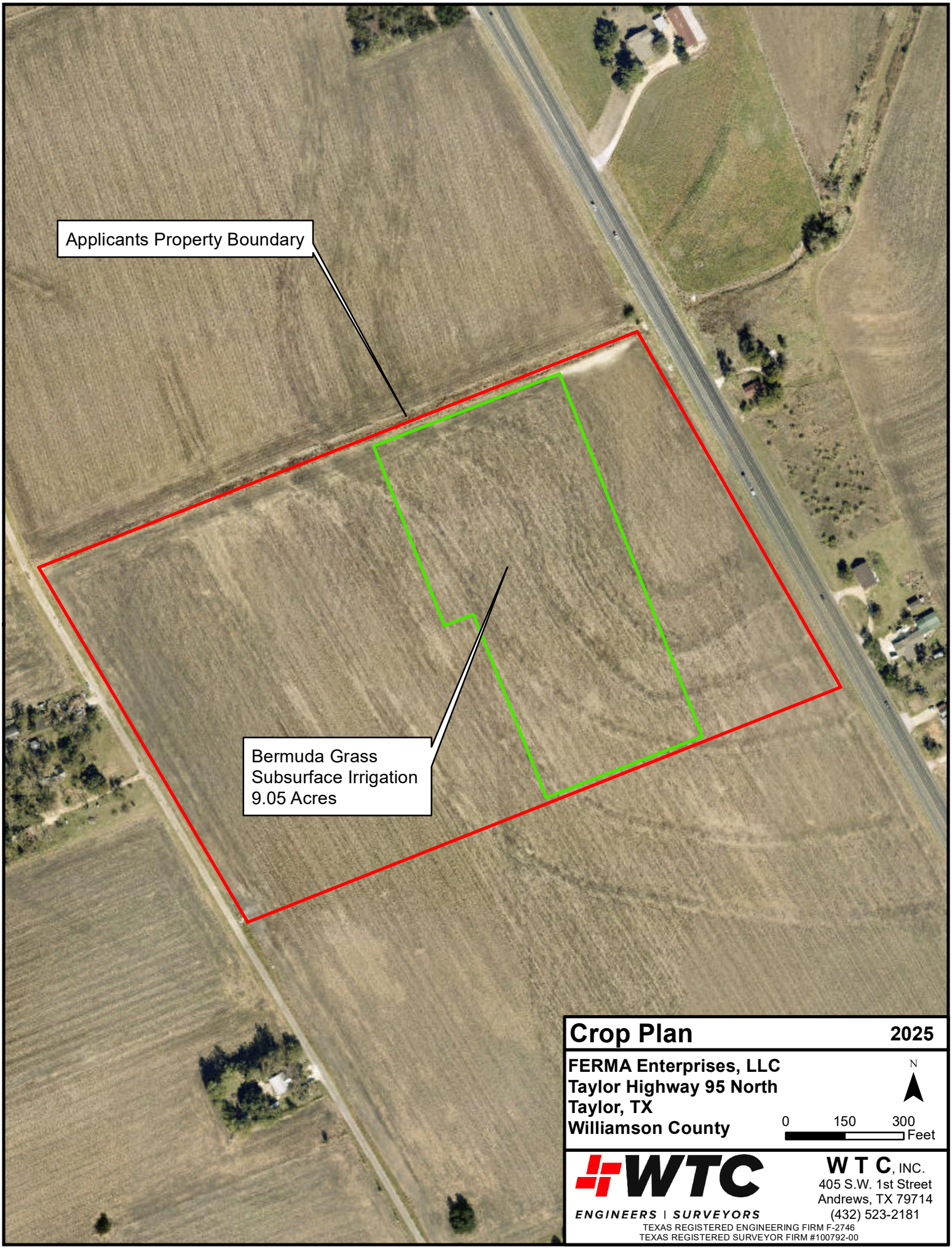
This region of central Texas in eastern Williamson County has an average rainfall of 34.0 in/year and is suitable for ample grass production when combined with a daily application of 0.1 gpd or 0.16/in/day; however, hot summer months may necessitate surface irrigation to maintain green, lush lawns.

10.0 CROP SALT TOLERANCES

Coastal Bermuda grass has a high tolerance for salt and does not require leaching, unless there is inadequate rainfall for long periods during the growing season. The average annual rainfall for this area moves salts away from the grass root zone during high rainfall months.

11.0 HARVESTING METHOD/NUMBER OF HARVESTS

The Coastal Bermuda grass will be cut with bagging lawn mowers using methods typical to this area. The number of cuttings will be dependent on the landscaping views of the Owner, but will probably average once or twice per month.



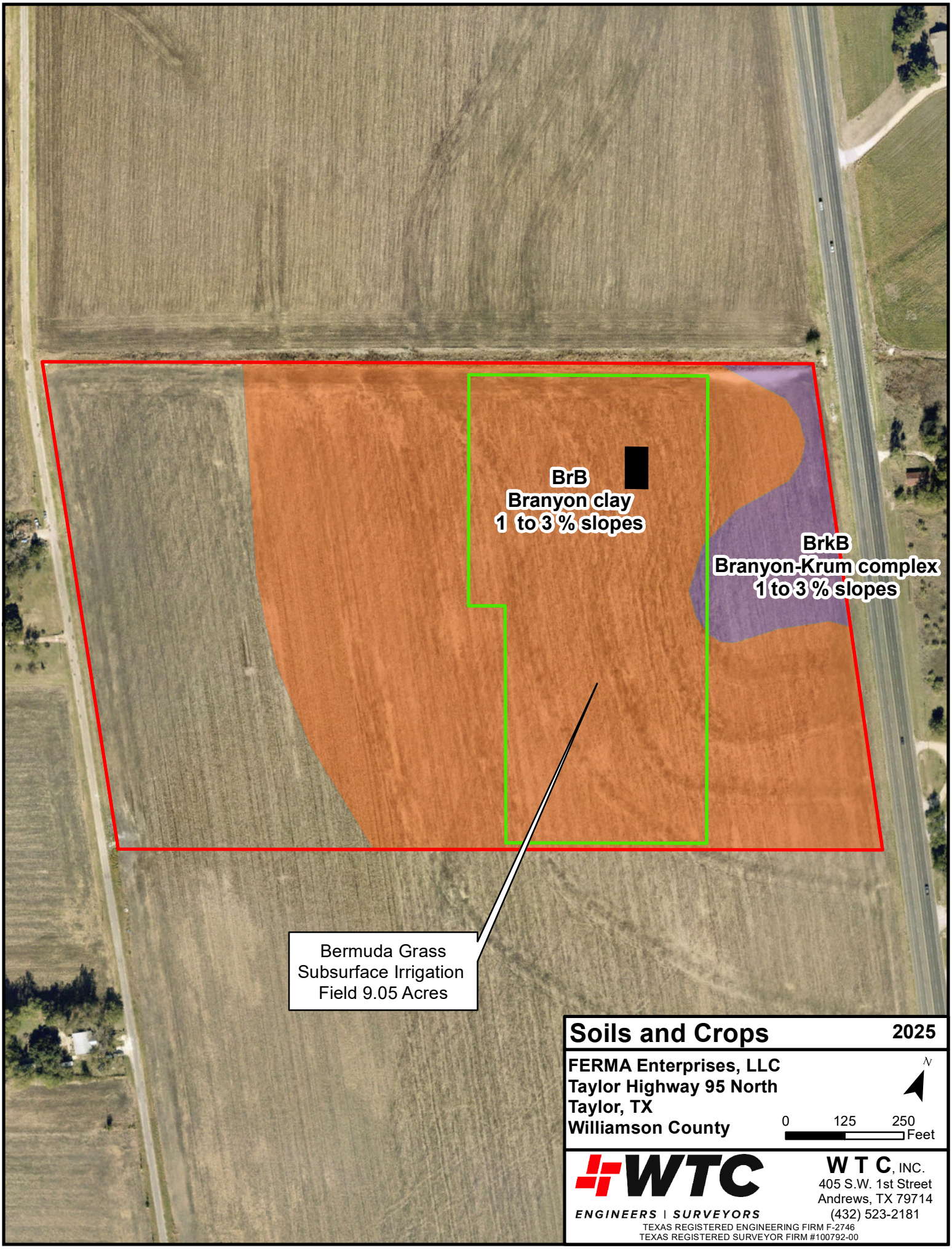
Crop Plan 2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 150 300 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00



Soils and Crops 2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 125 250 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
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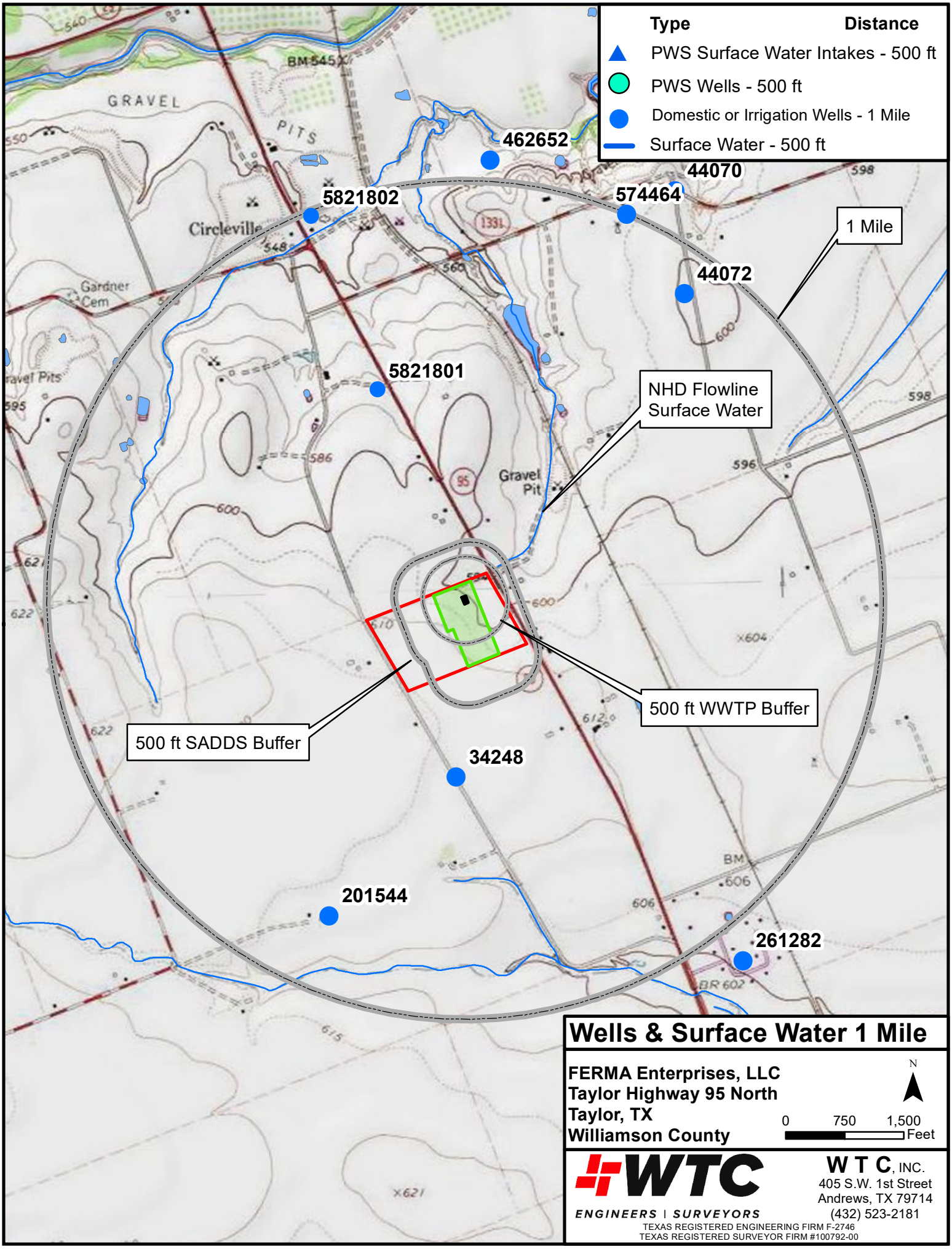
TEXAS REGISTERED SURVEYOR FIRM #100792-00



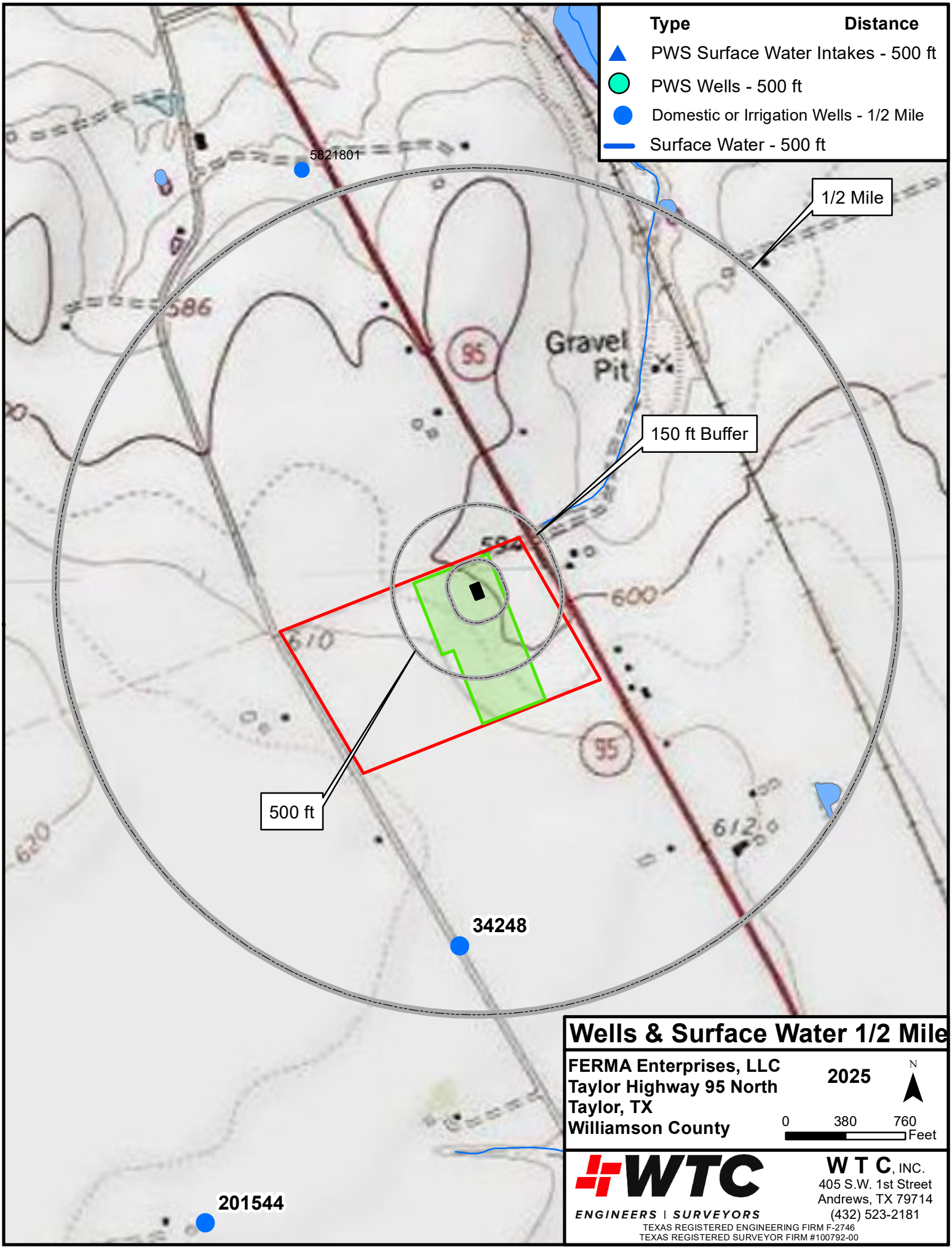
Wells & Surface Water 1 Mile

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 750 1,500 Feet

WTC ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00


Type
Distance
PWS Surface Water Intakes - 500 ft
PWS Wells - 500 ft
Domestic or Irrigation Wells - 1/2 Mile
Surface Water - 500 ft
5821801
1/2 Mile
Gravel Pit
150 ft Buffer
500 ft
34248
201544
Wells & Surface Water 1/2 Mile
FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County
2025
N
0
380
760
Feet
WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

STATE OF TEXAS WELL REPORT for Tracking #34248

Owner:	**Ed Wolbiveck**	Owner Well #:	**No Data**
Address:	**CR 3665 Taylor, TX 76574**	Grid #:	**58-29-2**
Well Location:	**CR 365 Taylor, TX 76574**	Latitude:	**30° 37' 07" N**
		Longitude:	**097° 25' 49" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/29/2003** Drilling End Date: **5/29/2003**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**34**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
22	**34**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
		4 Concrete
2	**22**	**3 Benseal**

Seal Method: **Gravity Feed and Pumped**

Sealed By: **Sam Lovelace**

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: **obvious**

Surface Completion: **Surface Sleeve Installed**

Water Level: **22 ft.** below land surface on **2003-05-29** Measurement Method: **Unknown**

Packers: **Rubber 22 feet**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 30 GPM with 2 ft. drawdown after 1 hours**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Lovelace Water Well Service**

4997 Elm Grove Road
Belton, TX 76513

Driller Name: **Tommy Lovelace** License Number: **4920**

Apprentice Name: **Sam Lovelace**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**Black**
4	**22**	**Marl**
22	**30**	**Gravel**
30	**34**	**Clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
4 1/2 New Solid Plastic +2 22 Sch40
4 1/2 New Slotted 22 34 .012

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-21-801

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5821801
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.632222
Latitude (degrees minutes seconds)	30° 37' 56" N
Longitude (decimal degrees)	-97.433055
Longitude (degrees minutes seconds)	097° 25' 59" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	590
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	D. Harrison
Driller	unknown
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/8/1986
Last Update Date	3/4/2020

Remarks	Estimated yield 20 GPM.

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

STATE OF TEXAS WELL REPORT for Tracking #44072

Owner:	**Craig Zimmerhanzel**	Owner Well #:	**No Data**
Address:	**101 FM 1331 Taylor, TX 76574**	Grid #:	**58-21-8**
Well Location:	**County Road 409 Taylor, TX 76574**	Latitude:	**30° 38' 07" N**
		Longitude:	**097° 25' 14" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **12/21/2003** Drilling End Date: **12/21/2003**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**44**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
18	**44**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
2	**18**	**4.5 cement**

Seal Method: **Gravity Feed**

Sealed By: **Sam Lovelace**

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: **tape measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **18 ft.** below land surface on **2003-12-21** Measurement Method: **Unknown**

Packers: **Rubber 18**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 40 GPM with 0 ft. drawdown after 1 hours**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Lovelace Water Well Serv.**

4997 Elm Grove Road
Belton, TX 76513

Driller Name: **Tommy Lovelace** License Number: **4920**

Apprentice Name: **Sam Lovelace**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**Black Clay**
4	**18**	**White Marl**
18	**36**	**Gravel**
36	**44**	**Clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	**New**	**Solid Plastic**	**2 18 Sch40**
4.5	**New**	**Slotted**	**18 44 .012**

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

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

STATE OF TEXAS WELL REPORT for Tracking #201544

Owner:	**Greg Brinkmeyer**	Owner Well #:	**No Data**
Address:	**618 CR 374 Taylor, TX 76574**	Grid #:	**58-29-2**
Well Location:	**618 CR 374 Taylor, TX 76574**	Latitude:	**30° 36' 50" N**
		Longitude:	**097° 26' 08" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **3/20/2007** Drilling End Date: **3/20/2007**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**25**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**-2**	**7**	**5 1/2**

Seal Method: **gravity feed**

Sealed By: **Driller**

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

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

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **8 ft.** below land surface on **2007-03-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **20**

Well Tests: **Pump** **Yield: 70+ GPM with 0 ft. drawdown after 1 hours**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Sam Lovelace**

1370 CR 361
Granger, TX 76530

Driller Name: **Sam Lovelace** License Number: **4640**

Comments: **$scd.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**7**	**black clay**
7	**19**	**gravel**
19	**25**	**clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	**N**	**slotted plastic**	**8-23 .012**
4.5	**N**	**solid plastic**	**+2-8 sch 40**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #261282

Owner:	**Chuck Ochoa**	Owner Well #:	**No Data**
Address:	**#4 Sandy Ln. Taylor, TX 76574**	Grid #:	**58-29-2**
		Latitude:	**30° 36' 43" N**
Well Location:	**#4 Sandy Ln. Taylor, TX 76574**	Longitude:	**097° 25' 08" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/28/2010** Drilling End Date: **7/28/2010**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**26**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**8**	**26**	**Gravel**	**3/8**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**-2**	**8**	**3 Cement**

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **35**

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

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

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **8 ft.** below land surface on **2010-07-28** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **22**

Well Tests: **Jetted** **Yield: 100 GPM with 0 ft. drawdown after .5 hours**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Sam Lovelace**

1370 CR 361
Granger, TX 76530

Driller Name: **Sam Lovelace** License Number: **4640**

Comments: **^EAD.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**black clay**
3	**8**	**marl**
8	**22**	**gravel**
22	**26**	**clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
4 1/2" New Solid Plastic -8' to +2' Sch 40
4 1/2" New Slotted Plastic -8' to -26' .012

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 #574464

Owner:	**Lee Bingham**	Owner Well #:	**1**
Address:	**700 FM 1331 Taylor, TX 76574**	Grid #:	**58-21-8**
Well Location:	**700 FM 1331 Taylor, TX 76574**	Latitude:	**30° 38' 17.16" N**
		Longitude:	**097° 25' 22.08" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/8/2021** Drilling End Date: **5/8/2021**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**40**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**21**	**40**	**Gravel**	**3/8**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**21**	**Cement 8 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **Tape**

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

Water Level: **21 ft.** below land surface on **No Data** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **39**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
21 - 28	**Alluvial**

Chemical Analysis Made: **No**

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

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

Company Information: **Blackland Water Well Service**

1370 CR 361
Granger, TX 76530

Driller Name: **Sammy B. Lovelace** License Number: **4640**

Comments: **Solid Casing used at top from -2 feet to 21 feet**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**Black Clay**
4	**21**	**Yellow Marl**
21	**28**	**Gravel**
28	**40**	**Clay and Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.4		**New Plastic (PVC)**	**SDR-17**	**-2**	**21**
4.5	**Screen**	**New**	**SDR-17 0.020**	**21**	**40**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

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

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-21-802

GWDB Reports and Downloads | **Well Basic Details** | Scanned Documents

State Well Number	5821802
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.638334
Latitude (degrees minutes seconds)	30° 38' 18" N
Longitude (decimal degrees)	-97.435556
Longitude (degrees minutes seconds)	097° 26' 08" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	545
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	1080
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1958
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	Historical
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	W. H. Briggs
Driller	unknown
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	11/7/1994
Last Update Date	3/4/2020

Remarks	Flows.

Casing

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

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

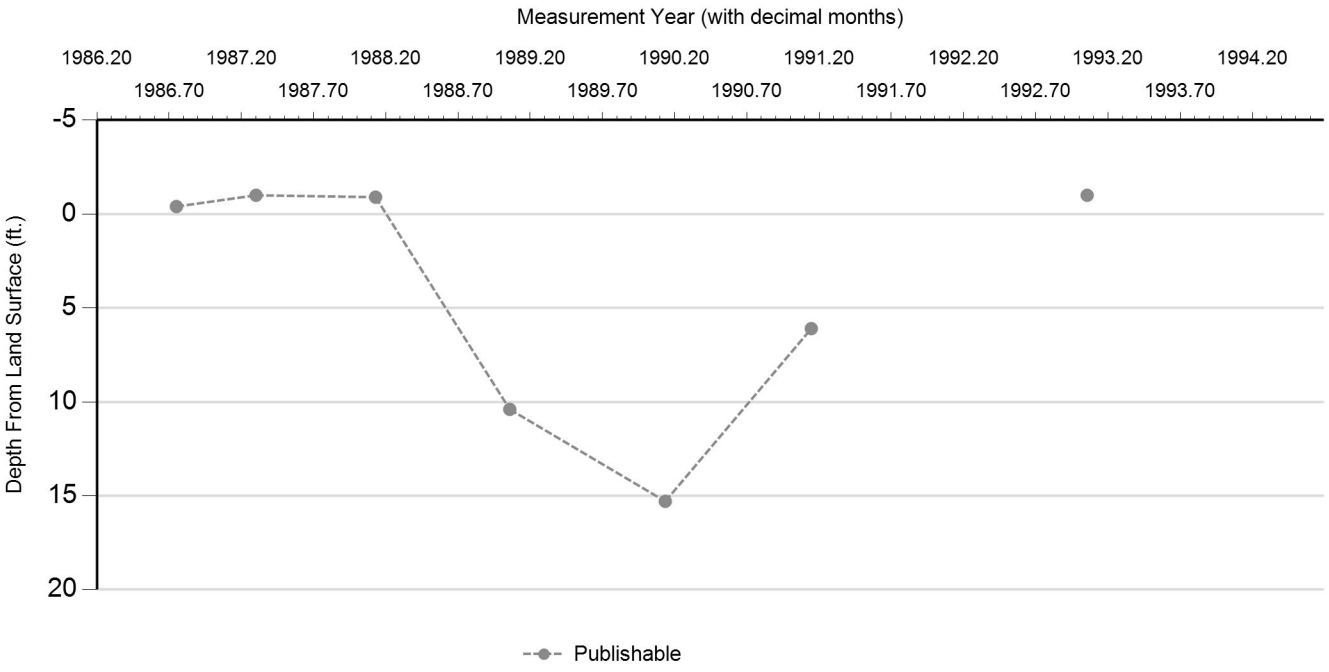
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/6/1986		-0.4		545.4	1	Texas Water Development Board	Pressure Gage		
P	4/22/1987		-1	(0.60)	546	1	Texas Water Development Board	Steel Tape		
P	2/19/1988		-0.9	0.10	545.9	1	Texas Water Development Board	Steel Tape		
P	1/23/1989		10.4	11.30	534.6	1	Texas Water Development Board	Steel Tape		
P	2/21/1990		15.3	4.90	529.7	1	Texas Water Development Board	Steel Tape		
P	2/25/1991		6.1	(9.20)	538.9	1	Texas Water Development Board	Steel Tape		
X	2/7/1992					1	Texas Water Development Board		27	
P	1/22/1993		-1		546	1	Texas Water Development Board	Steel Tape		
X	2/24/1994					1	Texas Water Development Board		18	

Code Descriptions

Status Code	Status Description
P	Publishable
X	No Measurement

Remark ID	Remark Description
18	Well destroyed
27	Well flowing and unable to shut-in

Water Quality Analysis

Sample Date: 10/6/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

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

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		415	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		506.44	mg/L	
00910	CALCIUM (MG/L)		14	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		257	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		8.9	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		59	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		6	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.22	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		7	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		7.11		
00955	SILICA, DISSOLVED (MG/L AS SI02)		15	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		29.46		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		523	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2640	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		390	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1470	mg/L	

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

FERMA Enterprises, LLC
Taylor Highway 95 North

Wastewater Treatment Plant
Subsurface Effluent Disposal

GROUNDWATER QUALITY TECHNICAL REPORT

The proposed wastewater irrigation methods and application rates are designed to be protective of groundwater. Groundwater resources will be protected by limiting wastewater application rates to 0.1 gpd or 0.16/in/day. There is no expected impact of the subsurface waste disposal operation on the uses of local groundwater resources.

Public drinking water for the area is supplied by Jonah Special Utility District. All known wells within one mile of the site are identified in the well maps in Appendix H. There are no wells within 150 feet of the subsurface disposal areas. Well 34248 is the closest water well to the site drilled in 2003. This domestic well is 34 feet in depth and has a static water level of 22 feet below surface and is filter packed with gravel from 22 to 34 feet deep. The well can yield 30 GPM with 2 foot drawn down after 1 hour. The well is located within the one-half mile buffer more than 2000 feet from the irrigation boundary. No water quality information on the well has been found.

Other wells within 1 mile:

Well Number	Use	Depth	Water Level (FBLS)	Yield
201544	Domestic	25	8	70+ GPM
5821801	Domestic	No data	No data	20 GPM
5821802	Plugged			
574464	Domestic	40	21	No data
44072	Domestic	44	18	40 GPM

Well 5821801 water quality information from the TWDB is attached. Water levels in the Trinity Aquifer in Williamson County have experienced significant declines due to historical groundwater pumping.

If required by the TCEQ, groundwater monitoring wells would be constructed at down gradient elevations.

Water Quality Analysis

Sample Date: 10/8/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: distribution

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		2	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		388	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		468.61	mg/L	
00910	CALCIUM (MG/L)		13	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		2.4	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		250	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		53	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		5	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.04	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.4	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		6	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		6.7		
00955	SILICA, DISSOLVED (MG/L AS SI02)		18	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		28.38		
00932	SODIUM, CALCULATED, PERCENT		95	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		475	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2416	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		336	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1339	mg/L	

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

Williamson County, Texas

BrB—Branyon clay, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2shgw
Elevation: 290 to 1,040 feet
Mean annual precipitation: 33 to 39 inches
Mean annual air temperature: 66 to 70 degrees F
Frost-free period: 243 to 288 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Branyon and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Branyon

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous clayey alluvium derived from mudstone of pleistocene age

Typical profile

Ap - 0 to 12 inches: clay
Bkss - 12 to 72 inches: clay
BCkss - 72 to 80 inches: clay

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 7.0
Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: D
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Minor Components

Houston black

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Burleson

Percent of map unit: 5 percent
Landform: Stream terraces, stream terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai, circular gilgai
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Lewisville

Percent of map unit: 5 percent
Landform: Stream terraces
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

Data Source Information

Soil Survey Area: Williamson County, Texas
Survey Area Data: Version 25, Aug 30, 2024

Williamson County, Texas

BrkB—Branyon-Krum complex, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2s1rw
Elevation: 420 to 730 feet
Mean annual precipitation: 34 to 37 inches
Mean annual air temperature: 67 to 69 degrees F
Frost-free period: 255 to 266 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Branyon and similar soils: 44 percent
Krum and similar soils: 36 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Branyon

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous clayey alluvium derived from mudstone

Typical profile

Ap - 0 to 12 inches: clay
Bkss - 12 to 72 inches: clay
BCkss - 72 to 80 inches: clay

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 7.0
Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: D
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Description of Krum

Setting

Landform: Stream terraces
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous silty and clayey alluvium derived from limestone

Typical profile

Ap - 0 to 7 inches: silty clay
A - 7 to 26 inches: silty clay
Bk - 26 to 50 inches: silty clay
Ck - 50 to 80 inches: silty clay

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: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: C
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

Minor Components

Lewisville

Percent of map unit: 15 percent
Landform: Stream terraces, stream terraces
Landform position (three-dimensional): Riser

Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

Altoga

Percent of map unit: 5 percent
Landform: Stream terraces
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

Data Source Information

Soil Survey Area: Williamson County, Texas
Survey Area Data: Version 25, Aug 30, 2024

Available Water Capacity

Map unit symbol	Map unit name	Rating (centimeters per centimeter)	Acres in AOI	Percent of AOI
BrB	Branyon clay, 1 to 3 percent slopes	0.17	38.9	43.8%
BrkB	Branyon-Krum complex, 1 to 3 percent slopes	0.17	3.4	3.8%
BuA	Burleson clay, 0 to 1 percent slopes	0.12	46.4	52.3%
Totals for Area of Interest			**88.7**	**100.0%**

Description

Available water capacity (AWC) refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in centimeters of water per centimeter of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure, with corrections for salinity and rock fragments. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. It is not an estimate of the quantity of water actually available to plants at any given time.

Available water supply (AWS) is computed as AWC times the thickness of the soil. For example, if AWC is 0.15 cm/cm, the available water supply for 25 centimeters of soil would be 0.15 x 25, or 3.75 centimeters of water.

For each soil layer, AWC is recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters per centimeter

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

TECHNICAL REPORT 3.3

Attachment I

Recharge Feature Plan

Geology Map

Site Preparation Plan

Site Drawing

Soil Sampling / Testing

Floodplain Map

Subsurface Irrigation Buffer Map

FERMA Enterprises, LLC
Taylor Highway 95 North

Wastewater Treatment Plant
Subsurface Effluent Disposal

RECHARGE FEATURE PLAN

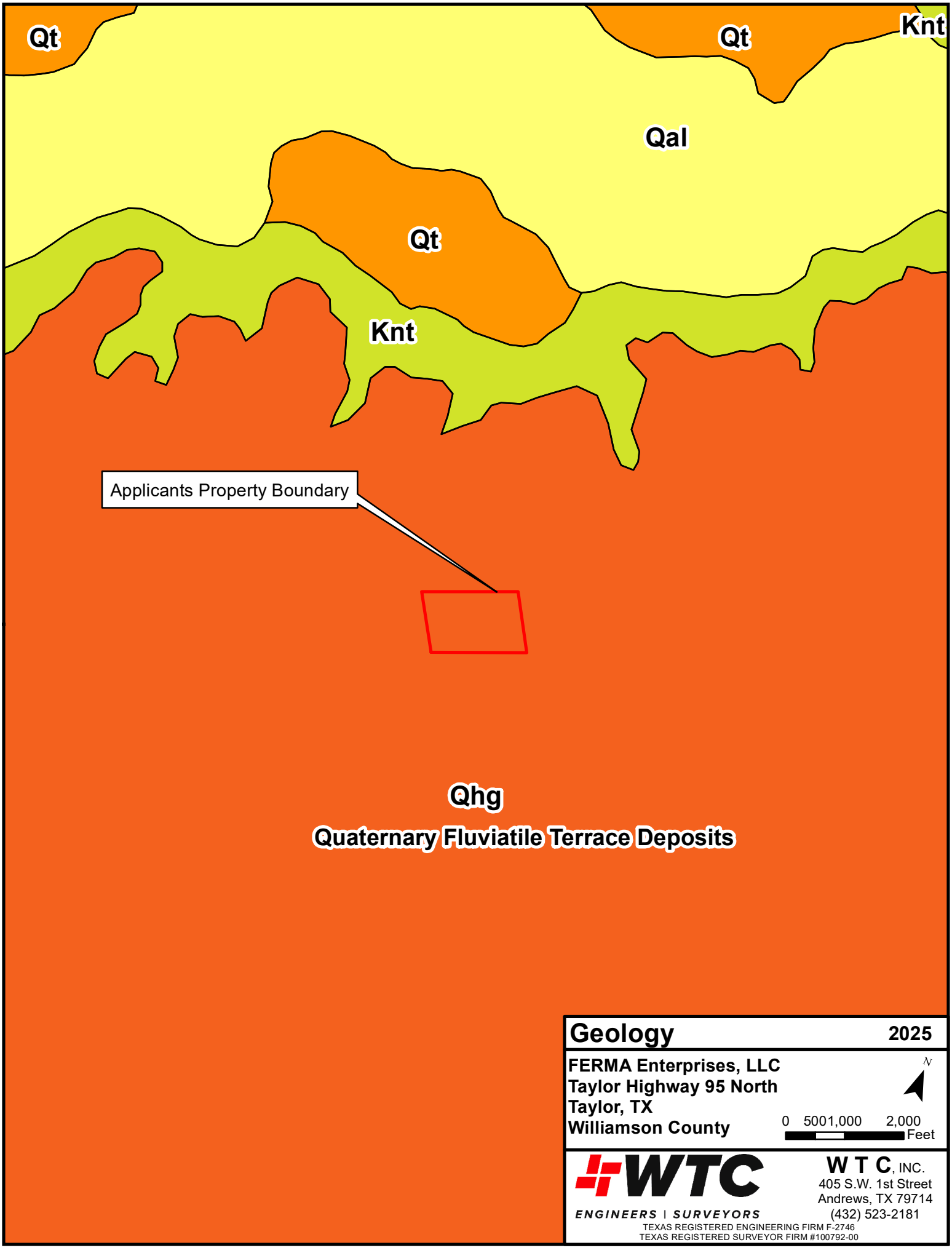
The available resources listed in 30 TAC 222.79 were referenced and no evidence any recharge features was identified.

According to the USGS Geologic Atlas of Texas (GAT) - Austin Sheet, the geology in this zone can best be described as belonging to the Pliocene Qhb-Quanternary High Gravel Deposits formation. The formation consists of high gravel deposits that are part of a fluvial terrace. The upper portion is composed of a silty clay unit that is good for crop production and a lower portion that consists of gravel, sand, silt and clay that yields some water. According to the GAT 1:250,000 geology, no faults were identified at the facility or vicinity.

The project is not in the Edwards Aquifer Zones. The site is located within the subcrop (confined area) of the Trinity Aquifer and Brazos River Basin. Most recharge is from direct infiltration via precipitation and streamflow loss. The Trinity Aquifer recharges very slowly, with only a small percentage of rainfall replenishing it. An intermittent stream is shown on the USGS NHD Flowline across Highway 95 from the property, but it is not within the 100 foot SADDS buffer zone for surface waters.

Potential uses for groundwater are low. Public drinking water in the area is provided by Jonah SUD. There is one well located within the half mile radius of the perimeter of the proposed subsurface area drip dispersal system site. Well 34248 is a domestic well 34 feet in depth with a static water level of 22 feet below land surface. The TWDB well report lists the date drilled as 5-29-2003. Lithology of the formation from the driller was described as:

0-4 ft – Black
4-22 ft – Marl
22-30 ft – Gravel
30-34 ft - Clay



Geology

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 500 1,000 2,000 Feet

WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

FERMA Enterprises, LLC
Taylor Highway 95 North

Wastewater Treatment Plant
Subsurface Effluent Disposal

SITE PREPARATION PLAN

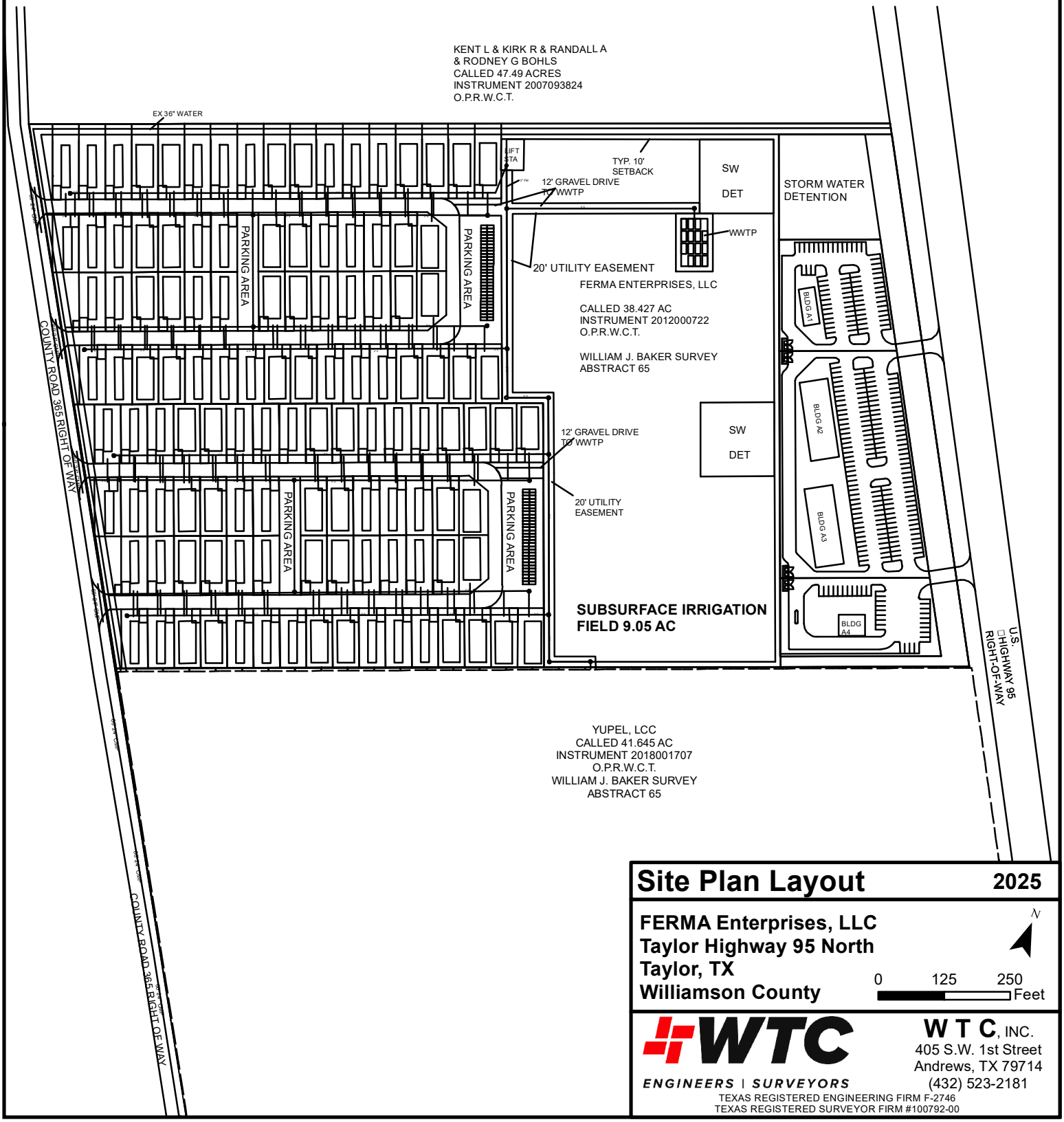
The site plan has been designed to ensure suitability for the subsurface area drip dispersal system.

Stormwater detention ponds have been included in the site plan to minimize rainfall run-on and maximize rainfall runoff from the dispersal zones.

There are no restrictive horizons within the soil column of the subsurface irrigation areas.

After harvesting the corn, the crop land will be left fallow. During construction clearing and grading activities, all large stone and rock will be removed from the terrain surface to 12 inches below the proposed placement of the drip lines.

Soil sampling and testing results have been submitted with all information required in 30 TAC § 222.157.



Site Plan Layout

2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 125 250 Feet

WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
ENGINEERS | SURVEYORS
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

FERMA Enterprises, LLC

Taylor Highway 95 North

Wastewater Treatment Plant
Subsurface Effluent Disposal

SITE SAMPLING PLAN

Soil sampling and testing results will be conducted as required in 30 TAC 22.157. Taylor Highway 95 North shall conduct soil sampling within the same 45-day time frame each calendar year and submit a laboratory analyses of the soil samples to TCEQ by September 1 following the sampling date.

Collect soil composite samples from each broadly defined soil characterization or texture, as defined by the United States Department of Agriculture. Take at least one composite soil sample from each dispersal zone.

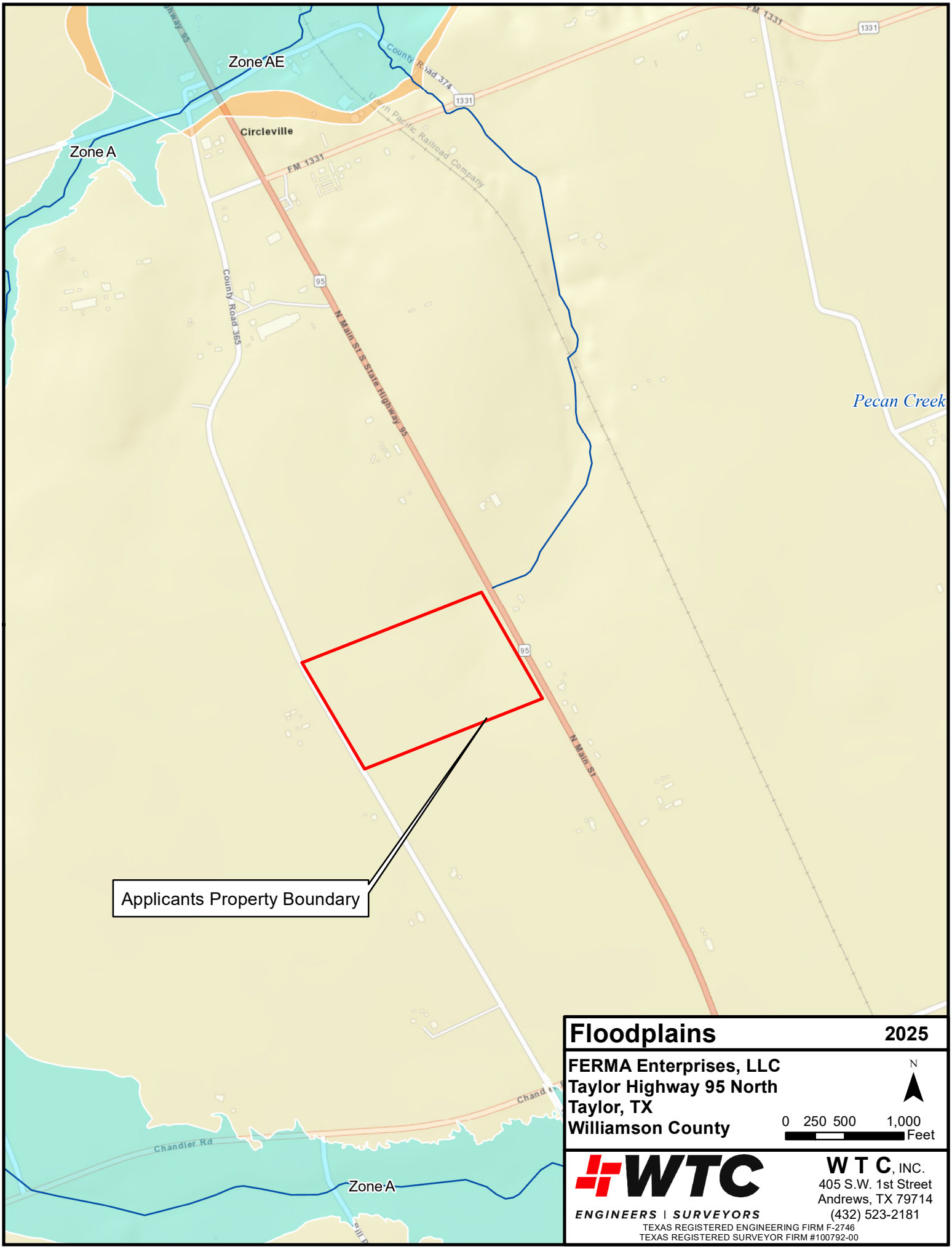
The samples will be taken in the zero to 12-inch zone of the soil; and the 12- to 24-inch zone of soil in the subsurface effluent disposal area. Alternate soil sampling depths and frequency may be approved if the permittee demonstrates that the alternate depths and frequency sufficiently monitors nutrient levels.

If soil conditions or weather preclude sampling within the time period required, Taylor Highway 95 North may submit a request to sample at another time. The request must include justification for the schedule change and the replacement schedule. Taylor Highway 95 North must comply with any alternate sampling methods or schedules required by the executive director.

The plant nutrient parameters shall be analyzed on a plant available basis. The permittee shall provide annual soil analyses of the dispersal zones for the following substances:

- pH (sample consisting of two volumes of water to one volume of soil mixture), in standard units;
- conductivity (sample consisting of two volumes of water to one volume of soil mixture), reported in millimho per centimeter;

- total Kjeldahl nitrogen. Methods that rely on mercury as a catalyst are not acceptable;
- nitrate-nitrogen;
- plant-available potassium, reported on a dry-weight basis in milligrams per kilogram (mg/kg);
- calcium, reported on a dry-weight basis in mg/kg;
- magnesium, reported on a dry-weight basis in mg/kg;
- sulfur, reported on a dry-weight basis in mg/kg;
- phosphorus, analyzed according to the Mehlich III procedure (the North American Proficiency Testing Program of the Soil Science Society of America) and reported on a dry-weight basis in mg/kg;
- sodium, reported on a dry-weight basis in mg/kg;
- salinity; and
- trace elements as specified in the individual permit.



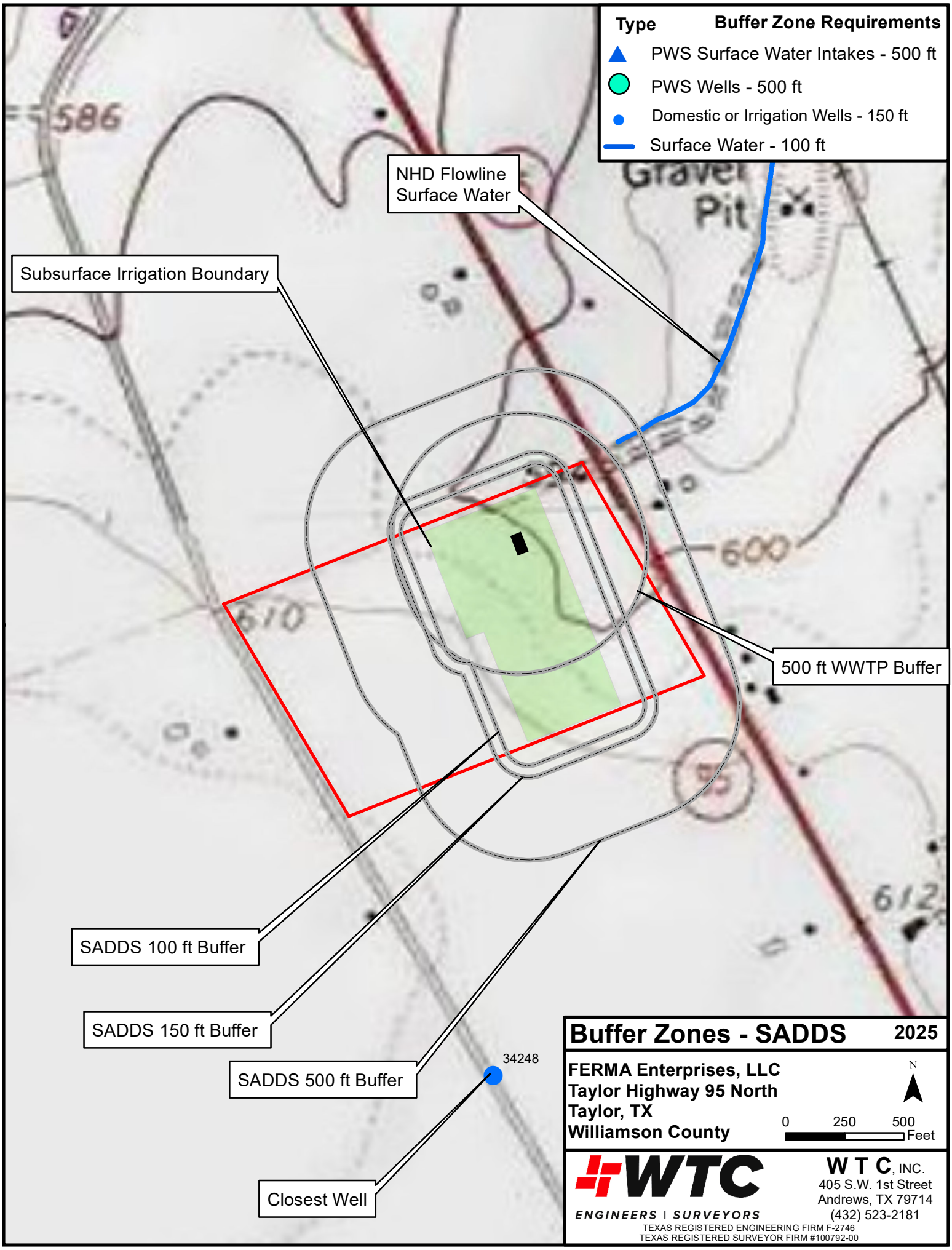
Floodplains 2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 250 500 1,000 Feet

WTC ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181
TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00


Type
Buffer Zone Requirements
PWS Surface Water Intakes - 500 ft
PWS Wells - 500 ft
Domestic or Irrigation Wells - 150 ft
Surface Water - 100 ft
NHD Flowline
Surface Water
Subsurface Irrigation Boundary
500 ft WWTP Buffer
SADDS 100 ft Buffer
SADDS 150 ft Buffer
SADDS 500 ft Buffer
34248
Closest Well
Pit
586
610
600
612
Buffer Zones - SADDS
2025
FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County
N
0
250
500
Feet
WTC
ENGINEERS | SURVEYORS
W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
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TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00

ENGINEERS | SURVEYORS

Andrews Office: 405 SW 1st Street, Andrews, TX 79714 • (432) 523- 2181
Austin Office: 1301 S. Capital of TX Hwy., Suite A-236, Austin, TX 78746 • (512) 328-6736
Texas Registered Engineering Firm F-2746 • Texas Registered Surveyor Firm #10079200

October 6, 2025

Rachel Ellis
Texas Commission of Environmental Quality
Applications Review and Processing Team (MC148)
Water Quality Division
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Proposed Permit No.: WQ0016884001 (EPA I.D. No. TX0148512)
Applicant Name: FERMA Enterprises, LLC (CN606430676)
Site Name: Taylor Highway 95 North (RN112286893)
Type of Application: New

Please see the responses to your letter dated September 29, 2025 for the above referenced permit. The replacement pages are attached. The electronic submittal has been updated and a copy of the revised application has been placed on the TCEQ ftp site. Please let me know if you need anything further.

1. TPDES/TLAP: Section 10/B indicates that there is "no discharge". You may have selected the wrong type of application. Please confirm if it is a Texas Pollutant Discharge Elimination System (TPDES) or Texas Land Application Permit (TLAP) application.

Response: Response: The permit application is for a Texas Land Application Permit (TLAP). Section 11 has been updated.

2. Section III, item 25, Facility Location, on page 2 of the Core Data Form (CDF): Thank you for addressing this item. However, the location description provided is insufficient because it does not use road intersections. The description of the location must be easily identifiable landmarks found on the USGS map submitted. The description must include the distance in feet or miles from road intersections to the facility. For Clarity purposes, we have sent an example of the location description to read as follows: The facility is located approximately 0.79-miles north of the intersection of Chandler Road and Highway 95, near the city of Taylor, in Williamson County, Texas 76574. Please submit updated page 2 of the CDF, both PLS forms, Section 10/item A of the application, and SPIF of the location description.

Response: The facility location description has been updated per TCEQ's suggestion. Section 10, Section III - Item 25 of the Core Data form, PLS and SPIF have been updated. The new CN and RN numbers & WQ have also been updated in the PLS.

3. Administrative Report 1.0, Section 11, page 8: This section of the application is missing, please complete section 11 of the application and return the updated page with the response to this email.

Response: Section 11 has been updated.

4. The following is a portion of the NORI which contains information relevant to your application.

ENGINEERS | SURVEYORS

Andrews Office: 405 SW 1st Street, Andrews, TX 79714 • (432) 523- 2181
Austin Office: 1301 S. Capital of TX Hwy., Suite A-236, Austin, TX 78746 • (512) 328-6736
Texas Registered Engineering Firm F-2746 • Texas Registered Surveyor Firm #10079200

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.

FERMA ~~Ferma~~ Enterprises, LLC, 1702 Intervail Drive, Austin, Texas 78746, which owns a commercial and residential development has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas ~~Pollutant Discharge Elimination System (TPDES)~~ Land Application Permit (TLAP) Permit No. WQ0016884001 (EPA I.D. No. TX0148512) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 40,000 gallons per day via subsurface irrigation of 9.05 acres of land. The facility and disposal area will be located ~~at located~~ on Highway 95, approximately 0.79 miles north of the intersection of Chandler Road and Highway 95, near the city of Taylor, in Williamson County, Texas 76574 ~~(facility address pending response)~~. ~~The discharge route will be from the plant site to (pending response)~~. TCEQ received this application on September 18, 2025. The permit application will be available for viewing and copying at Taylor Public Library, circulation desk, 801 Vance Street, Taylor, 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/tpdesapplications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.42875,30.625611&level=18
Further information may also be obtained from FERMA ~~Ferma~~ Enterprises, LLC at the address stated above or by calling Mr. Robert H. Thonhoff, Jr. P.E., at 512-328-6736.

Response: Please see the corrected items noted in red above. The online mapper location was viewed and the location is correct.

8. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Response: The Spanish translation of the NORI with the above refenced changes in a Microsoft Word document are included.

Sincerely,

Cari Harrington

Enclosures:

Form 10053 Administrative Report replacement page 8
Form 10053 Administrative Report replacement page 9
Form 10400 Core Data replacement page 2
Form 20971 SPIF replacement page 2
Form 20972 PLS replacement pages 1-3
NORI Spanish (Word)

Organization Name: FERMA Enterprises, LLC

Mailing Address: 1702 Intervail Dr. City, State, Zip Code: Austin, TX 78746-7630

Phone No.: 512-940-4234 E-mail Address: peteherzog@hotmail.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:

New Permit: Williamson County CAD Parcel R018621. The facility and subsurface disposal area will be located at located on Highway 95, approximately 0.79 miles north of the intersection of Chandler Road and Highway 95, near the city of Taylor, in Williamson County, Texas 76574. NE corner of property: 30.625611, -97.428752. WWTP is located at 30.624344°, -97.429363°

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:

New Permit: Not Applicable – no discharge

City nearest the outfall(s): NA

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

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: NA

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:

New Permit – The 9.05 acre subsurface irrigation field center is located at 30.623740° , 97.429817°

B. City nearest the disposal site: Taylor

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

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

From the treatment plant through a 3" field supply main pipe to the irrigation site; thence via 2"distribution manifold and ½" drip tubing.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Unnamed tributary to San Gabriel northeast 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.

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?

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 940-4234		( ) -

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.)*

Taylor Highway 95 North

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City	Taylor	**State**	TX	**ZIP**		**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:	On Highway 95 approximately 0.79 miles north of the intersection of Chandler Road and Highway 95				
26. Nearest City			**State**	**Nearest ZIP Code**	
Taylor			TX	76574	

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:	30.625611		**28. Longitude (W) In Decimal:**	-97.428752	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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)
6512	6515	236220	531190

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

Commerical and Residental Development

34. Mailing Address:	**1702 Intervail Dr.**							
	City	**Austin**	**State**	**TX**	**ZIP**	**78746**	**ZIP + 4**	**7630**
35. E-Mail Address:	**peteherzog@hotmail.com**							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 940-4234		( ) -

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: FERMA Enterprises, LLC

   Permit No. WQ00 Click here to enter text EPA ID No. TX Click here to enter text

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

   The Taylor Highway 95 North is located on Highway 95, approximately 0.79 miles north of the intersection of Chandler Road and Highway 95, near the city of Taylor, in Williamson County, Texas 76574. Williamson County CAD Parcel R018621. NE corner of property: 30.625611, -97.428752. The Wastewater Treatment Plant will be located at 30.624344°, -97.429363°

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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 DOMESTIC WASTEWATER/STORMWATER

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

FERMA Enterprises, LLC (CN606430676) proposes to operate Taylor Highway 95 North (RN112286893), a commercial and residential development. The facility will be located at on Highway 95 approximately 0.79 miles north of the intersection of Chandler Road and Highway 95, in Taylor, Williamson County, Texas 76574. New application to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.040 million gallons per day (MGD) via a subsurface drip irrigation system with a minimum area of 9.05 acres of public land access.

Discharges from the facility are expected to contain less than 100 mg/l biochemical oxygen demand (BOD), 100 mg/l total dissolved solids (TSS) and 126 E.Coli CFU MPN/ 100 ml. Domestic wastewater will be treated by activated sludge process followed by clarification and disinfection. Wastewater enters the treatment system into the primary settling tank, then equalization collection tank, then aeration basins, then clarifier, then effluent storage basins

before being routed to the subsurface drain fields. Waste sludge is removed directly from the sludge hoppers to the aerated sludge holding basin and hauled off site for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS /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.

FERMA Enterprises, LLC (CN606430676) propone operar Carretera Taylor 95 Norte (RN112286893), un desarrollo comercial y residencial. La instalación estará ubicada en la Carretera 95 aproximadamente a 0.79 millas al norte de la intersección de Chandler Road y la Carretera 95, en Taylor, Condado de Williamson, Texas 76574. Nueva solicitud para la eliminación de efluentes de aguas residuales domésticas tratadas a un caudal promedio diario que no exceda los 0.040 millones de galones por día (MGD) mediante un sistema de riego por goteo subterráneo con un área mínima de 9.05 acres de acceso a terrenos públicos.

Se espera que las descargas de la instalación contengan menos de 100 mg/l de demanda bioquímica de oxígeno (DBO), 100 mg/l de sólidos disueltos totales (SST) y 126 UFC de E. coli (NMP)/100 ml.. Las aguas residuales domésticas se tratarán mediante un proceso de lodos activados, seguido de clarificación y desinfección. están tratado por Las aguas residuales ingresan al sistema de tratamiento a través del tanque de sedimentación primario, luego al tanque de recolección de ecualización, luego a las piscinas de aireación, finalmente al clarificador y finalmente a las piscinas de almacenamiento de efluentes, antes de ser conducidas a los campos de drenaje subterráneo. Los lodos residuales se extraen directamente de las tolvas de lodos a la piscina de almacenamiento de lodos aireados y se transportan fuera del sitio para su posterior tratamiento y eliminación.

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ00

SOLICITUD. FERMA Ferma Enterprises, LLC, 1702 Intervail Drive, Austin, Texas 78746, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016884001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 40,0000 galones por día mediante un sistema de riego por goteo subterráneo con un área mínima de 9.05 acres de acceso a terrenos públicos. La planta y el área de disposición estarán ubicados la Carretera 95 aproximadamente a 0.79 millas al norte de la intersección de Chandler Road y la Carretera 95, en Taylor, en el Condado de Williamson, Texas 76574. La TCEQ recibió esta solicitud el 18 de septiembre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca pública de Taylor, Mostrador de Circulación, 801 Vance Street, Taylor, Condado de Williamson, 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=-97.42875,30.625611&level=18 *https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.42875,30.625611&level=18*

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de

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

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron

retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

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

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Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ00

SOLICITUD. FERMA Ferma Enterprises, LLC, 1702 Intervail Drive, Austin, Texas 78746, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016884001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 40,0000 galones por día mediante un sistema de riego por goteo subterráneo con un área mínima de 9.05 acres de acceso a terrenos públicos. La planta y el área de disposición estarán ubicados la Carretera 95 aproximadamente a 0.79 millas al norte de la intersección de Chandler Road y la Carretera 95, en Taylor, en el Condado de Williamson, Texas 76574. La TCEQ recibió esta solicitud el 18 de septiembre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca pública de Taylor, Mostrador de Circulación, 801 Vance Street, Taylor, Condado de Williamson, 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=-97.42875,30.625611&level=18 *https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.42875,30.625611&level=18*

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de

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

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre

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

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Fecha de emisión: *[Date notice issued]*

WTC
ENGINEERS | SURVEYORS

Andrews Office: 405 SW 1st Street, Andrews, TX 79714 • (432) 523- 2181
Austin Office: 1301 S. Capital of TX Hwy., Suite A-236, Austin, TX 78746 • (512) 328-6736
Texas Registered Engineering Firm F-2746 • Texas Registered Surveyor Firm #10079200

October 8, 2025

Paula Palmar
Texas Commission of Environmental Quality
Applications Review and Processing Team (MC148)
Water Quality Division
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Proposed Permit No.: WQ0016884001 (EPA I.D. No. TX0148512)
Applicant Name: FERMA Enterprises, LLC (CN606430676)
Site Name: Taylor Highway 95 North (RN112286893)
Type of Application: New

Please see the responses to your October 3, 2025 email for the above referenced permit. The replacement pages are attached. The electronic submittal has been updated and a copy of the revised application has been placed on the TCEQ ftp site. Please let me know if you need anything further.

Domestic Technical Report 1.0:

1. Section 3: Please provide coordinates of the proposed facility location.

Response: Section 3 has been updated. The 9.05 acre subsurface irrigation field center is located at 30.623740° N , -97.429817° W.

Domestic Technical Report 1.1:

1. Section 1A: Justification of permit need. Revise Section 1A to provide justification for the proposed flows indicated on page 1 of Technical Report 1.0. Provide information such as the size of the development (number of lots), the date construction on the development is scheduled to begin, and the anticipated growth rate of the development (number of houses per month or year), and what flow per home was used to develop the proposed permitted flow. If additional space is needed, submit the justification information as an attachment.

Response: The following sentence has been added to Section 1A. **"**The site is undeveloped cropland. The project includes a 6.63 acre commercial development with retail and restaurant buildings and a 120 unit mobile home park to be completed in two phases. Phase 1 – 14.43 acres, Phase 2 - 15.02 acres will be constructed to include 60 units mobile homes per phase. Construction will begin in early 2026 and end in late 2026."

The flow rate of 245 GPD was used per mobile home site. The WWTP and subsurface irrigation has been designed to accommodate the maximum occupancy and flows for both phases of mobile home park.

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2. Estimate the design flows using 30 TAC Chapter 217.32(a)(3)(Table B.1). Otherwise provide the sources for your basis for this estimate. In addition, provide information whether the population growth will allow for the facility to be constructed and operated in the next 5 or 10 years.

Response: The City of Austin Water Utilities Criteria Manual (UCM 2.9.4) for wastewater was used to design the WWTP and subsurface irrigation sizes to accommodate the maximum occupancy and projected flows. The site design/layout and wastewater treatment system is confined to the property boundaries and will not be expanded. A copy of the guidance document and LUE conversion table has been added to Attachment G.

3. Attach population estimates and/or projections used to derive the flow estimates and anticipated growth rates for developments. Provide the source and basis upon which population figures were derived (census and/or other methodology). Also, provide population projections at the end of the design life of the treatment facility (usually 50+ years) and the source and basis upon which population figures were derived.

Response: The City of Austin Water Utilities Criteria Manual (UCM 2.9.4) for wastewater was used to design the WWTP and subsurface irrigation sized to accommodate the maximum occupancy and projected flows. A copy of the design flow calculations breakdown including the mobile home park and commercial users has been added to Attachment G.

4. Section 5. Facility Site (Instructions Page 60). Provide the information concerning flood protection and wetlands. Treatment units must be protected from inundation from a 100-year frequency flood event. Please provide a zoom up map with the location of the facility and the discharge point.

Response: As indicated in Section 5. A – The proposed facility is above the 100-year frequency flood level. Refer the floodplain map exhibit as presented in Attachments H and I. There is no floodplain within the immediate vicinity of the site. There nearest floodplain is located to the north of +/- 0.8 miles away from the property boundary. See the additional two topography maps in Attachment H which show the location of all surface waters listed on the USGS NHL. In addition, the WWTP treatment units are enclosed. Rainfall run-on will be diverted to storm sewer and only rainfall falling onto surface of subsurface drip irrigation field will drain overland by sheet flow and natural topography. An aerial scaled 1 to inch = 300 ft is included in Attachment E which clearly shows the drainage channel of the intermittent stream listed. See Buffer Zone maps in Attachment D & I for additional offset distances from the WWTP and subsurface irrigation boundaries.

According to the US Fish and Wildlife Service National Wetlands Inventory Map, there are riverine wetlands within the intermittent stream located to the northeast of the site. The Riverine System includes all wetlands and deepwater habitats contained within a channel or an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water. This subsystem also includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent. Surface water maybe present for extended periods especially early in the growing season, but is absent by the end of the growing season in most years. The design of the WWTP and subsurface irrigation of the treated effluent discharge will not affect water quality within the stream bed. A new Wetland Map has been added to Attachment H.

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Sincerely,

Cari Harrington

Enclosures:

Form 10054 Domestic Technical Report replacement page 2
Form 10054 Domestic Technical Report replacement page 15
Attachment G insert - Flow Design Calculations Spreadsheet
Attachment G insert – City of Austin Water Living Unit Equivalent (LUE) Guidance Document
Attachment H insert - Wetland Map

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

There is no wastewater CCN for the area of the site. The City of Taylor CCN is less than 3 miles from the property, the site has been de-annexed from the City of Taylor's ETJ. There are two pending permits for wastewater treatment facilities within 3 miles, however these are privately owned and serve only the collection systems associated with the developments. The CCN, ETJ and WWTP maps have been included in Attachment G. The site is undeveloped cropland. The project includes a 6.63 acre commercial development with retail and restaurant buildings and a 120 unit mobile home park to be completed in two phases. Phase 1 – 14.43 acres, Phase 2 - 15.02 acres will be constructed to include 60 units mobile homes per phase. Construction will begin in early 2026 and end in late 2026.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☒ No

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

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.**

Influent enters the treatment system from the sanitary sewer lift station and flows into the primary settling tank, then equalization collection tank (trash tank), then to the aeration basins then to the secondary settling tank final clarifier. Pumps return sludge from the settling tank to the aeration basins. Effluent flows through the weir trough into the effluent storage basin before being routed to the subsurface drain fields. Waste sludge is removed directly from the sludge hoppers to the sludge holding basin and then hauled off site for further treatment and disposal.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Primary Settling Tank	1	10 ft x 20 ft x 14 ft
Equalization Collection Tank	1	10 ft x 20 ft x 14 ft
Aeration Basins	4	10 ft x 20 ft x 14 ft
Settling Basin Final Clarifier	1	10 ft x 20 ft x 15.8 ft
Sludge Holding Tank	1	10 ft x 20 ft x 14 ft
Effluent Storage Basins	6	10 ft x 20 ft x 14 ft
Subsurface drain field	1	9.05 acres

C. Process Flow Diagram

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

Attachment: F

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

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

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

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

- Latitude: 30.623740° N
- Longitude: -97.429817° 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

FERMA Taylor Highway 95 North Flow Design Calculations						
Bldg	**Type**	**SQ FT**	**conv rate**	**LUE**	**GPD (LUE*245)**	**MGD**
A1	Restaurant	2100	200	10.5	2572.5	0.0026
A2	Retail	8100	1660	4.9	1195.5	0.0012
A3	Retail	6100	1660	3.7	900.3	0.0009
A3	Restaurant	2000	200	10	2450	0.0025
A4	Restaurant	2000	200	10	2450	0.0025
Total Retail				8.6	2095.8	0.0021
Total Restaurant				30.5	7472.5	0.0075
Total All Commercial				39.1	9568.3	0.0096
WWTP Designed Total - Commercial				**40.0**	**9800**	**0.0098**
Residential		**Number**				
Mobile Homes		120	1	120	29400	0.0294
TOTAL Commercial & Residential				**160**	39200	**0.0392**
160 LUE X 245 GPD/LUE =						
Min Area Requirements Irrigation						
GPD/0.1= SQ FT		**MGD**	**GPD**	**SQ FT**	**Acres**	
Commercial		0.0294	29400	294000	6.75	
Residential		0.0098	9800	98000	2.25	
Total		0.0392	**39200**	**392000**	**9.00**	
						Total Subsurface Irrigation Acreage Designed 9.05
CALCULATION ASSUMPTIONS:						
1. USING CITY OF AUSTIN LUE REFERENCE DOCUMENT TO DETERMINE WASTEWATER FLOW: 1 LUE = 245 GPD						
2. USING CITY OF AUSTIN LUE CONVERSION RATE: RESTAURANT = 200 SF/LUE; RETAIL = 1,660 SF/LUE						
3. USING CITY OF AUSTIN LUE CONVERSION RATE: SINGLE FAMILY RESIDENCE; MODULAR HOME; MOBILE HOME = 1 LUE per Unit.						
4. USING TCEQ RULE 222.83(a)(1): APPLICATION RATE = 0.1						

City of Austin | Austin Water
6310 Wilhelmina Delco Drive, Suite 3100
Austin, Texas 78752
http://www.austintexas.gov/SER
SER@austintexas.gov

LIVING UNIT EQUIVALENT (LUE) GUIDANCE DOCUMENT

Definition: A living unit equivalent (LUE) is defined as the typical flow that would be produced by a single family residence located in a typical subdivision. An LUE is assumed to represent 3.5 people living in a residence. For water requirements, this includes consumptive uses, such as lawn watering and evaporative coolers. The wastewater system does not receive all of these water flows, so the calculated flows differ between water and wastewater. The number of LUEs for a project is constant; only the water and wastewater flows are different. An LUE is not equivalent to a fixture unit.

WATER

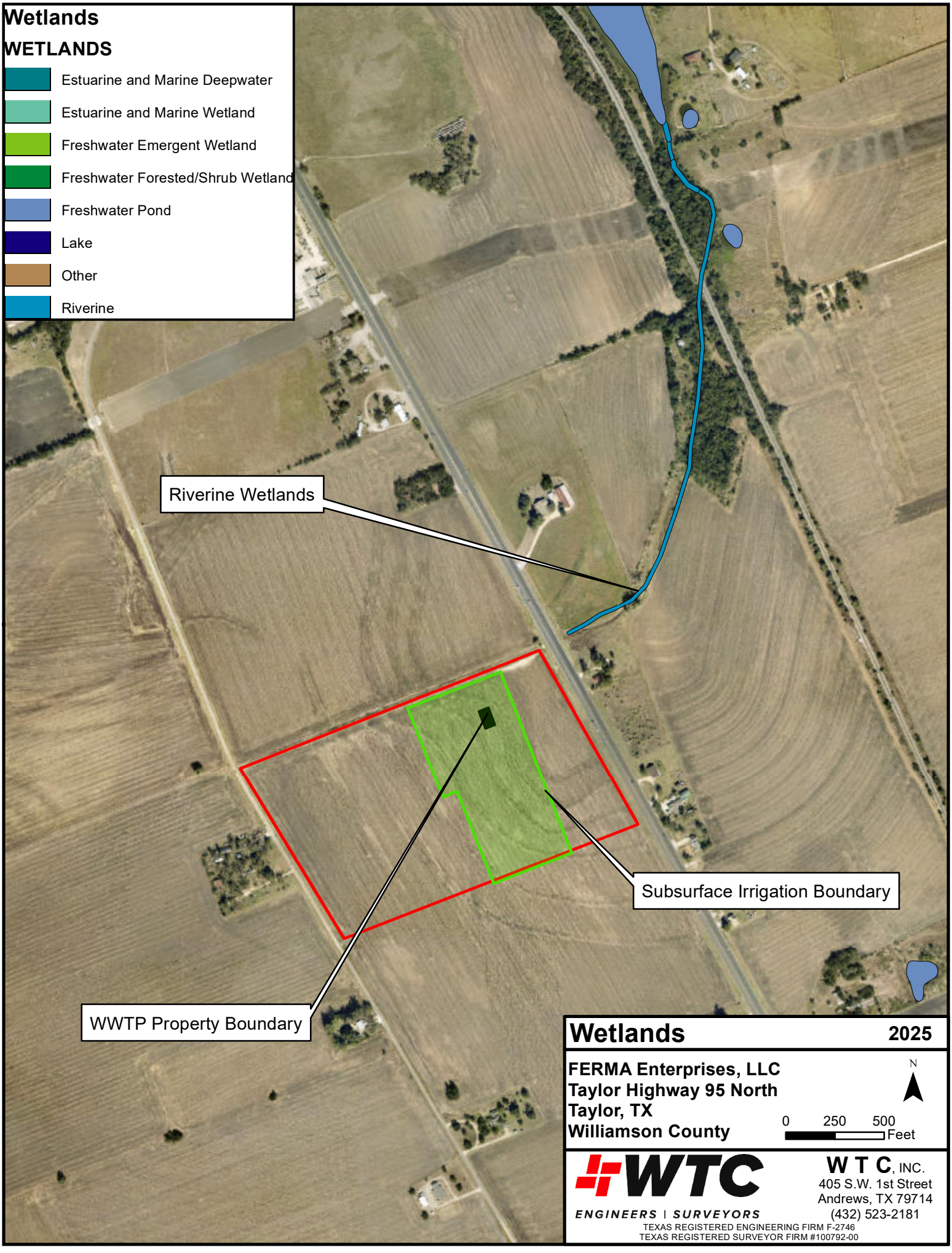
Details on calculating the Water Utility Requirements for a project can be found in the Utilities Criteria Manual (UCM 2.9.2). The UCM is available online at:
https://www.municode.com/library/tx/austin

WASTEWATER

Details on calculating the Wastewater Utility Requirements for a project can be found in the Utilities Criteria Manual (UCM 2.9.4)
For Service Extension Request (SER) projects the following Wastewater Peak Flow Factor can be used:
Peak Flow Factor = [18+(0.0206 x F)^0.5]/[4+(0.0206 x F)^0.5)], Maximum = 4

The Following LUE Conversions can be used to estimate flows for various development types (Use is Not Mandatory; if using other factors please explain how the factors better represent a specific development).

Proposed Use (Residential)	LUE CONVERSION (L.U.E. per Unit)
Single Family Residence; Modular Home; Mobile Home:	1
Duplex:	2
Triplex; Fourplex; Condo Unit; P.U.D., Apartment Unit (6+ Units/Acre to 24 Units/Acre):	0.7
Condo or Apartment Unit (24+ Units/Acre):	0.5
Hotel or Motel Room:	0.5
Proposed Use (Commercial)	**LUE CONVERSION (Units per L.U.E.)**
Office (Square Feet of Floor)	3000
Office Warehouse (Square Feet of Floor)	4000
Retail; Shopping Center (Square Feet of Floor)	1660
Restaurant; Cafeteria (Square Feet of Floor)	200
Hospital (Beds)	1
Rest Home (Beds)	2
Church (Worship Services Only) (seats)	70
High / Middle School (Includes Gym and Cafeteria) (Students)	13
Elementary School (Includes Gym and Cafeteria) (Students)	15



Wetlands 2025

FERMA Enterprises, LLC
Taylor Highway 95 North
Taylor, TX
Williamson County

N

0 250 500 Feet

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W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
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TEXAS REGISTERED ENGINEERING FIRM F-2746
TEXAS REGISTERED SURVEYOR FIRM #100792-00