

# 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

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

#### DOMESTIC WASTEWATER

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

City of Farmersville (CN600423107) proposes to operate City of Farmersville wastewater treatment plant #3 RN105156343. a membrane batch reactor plant. The facility will be located approximately 0.5 mile southwest of the intersection of State Highway 78 and County Road 560, in Farmersville, Collin County, Texas 75442. This application is for a major amendment renewal to discharge at an annual average of 1,500,000 gallons per day of treated domestic wastewater via outfall 001. Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Domestic wastewater will be treated by a membrane batch reactor process plant and the treatment units include a bar screen, fine screens, anaerobic basins, aerobic basins, membrane basins, clarifier basins, sludge digesters, a belt filter press, and disinfection..

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

#### AGUAS RESIDUALES DOMÉSTICAS

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

La Ciudad de Farmersville (CN600423107) propone operar la City of Farmersville wastewater treatment plant #3 RN105156343, una planta de reactor Por lotes de membrana. La facilidad estará localizada aproximadamente 0.5 millas suroeste de le intersección del State Highway 78 y el County Road 550, en Farmersville, Condado Collin, Texas 75442.

Esta aplicación es una renovación de enmienda importante para descargar un promedio anual de 1,500,000 galones por día de aguas residuales domesticas tratadas a través del punto de outfall 001.

Se espera que las descargas de la instalación contengan la demanda bioquímica de oxígeno carbonosos a cinco días (CBOD<sub>5</sub>), solidos totalmente suspendidos (TTS), nitrógeno amoniacal (NH<sub>3</sub>-N), y agua residual domestica *Escherichia coli*. tratada por una planta de reactor por lotes de membrana y las unidades de tratamiento incluirán un filtro de barras, filtro fino, cuencas anaeróbicas, cuencas clarificadoras, digestores de lodos, una prensa de cinto coladora y desinfección.

# **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### PERMIT NO. WQ0014778001

**APPLICATION.** City of Farmersville, 205 South Main Street, Farmersville, Texas 75442, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WO0014778001 (EPA I.D. No. TX0129402) to authorize an increase to the discharge of treated wastewater to a volume not to exceed an annual average flow of 1,500,000 gallons per day. The domestic wastewater treatment facility is located approximately 0.5 mile southwest of the intersection of County Road 550 and State Highway 78, near the city of Farmersville, in Collin County, Texas 75442. The discharge route is from the plant site to an unnamed tributary; thence to Elm Creek Arm of Lavon Lake. TCEO received this application on June 9, 2025. The permit application will be available for viewing and copying at Farmersville City Hall, public foyer, 205 South Main Street, Farmersville, in Collin County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pendingpermits/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=-96.418055,33.103888&level=18

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

**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 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 <u>www.tceq.texas.gov/goto/cid</u>. 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 <u>https://www14.tceq.texas.gov/epic/eComment/</u>, 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 <u>www.tceq.texas.gov/goto/pep</u>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Farmersville at the address stated above or by calling Mr. Eddy Daniel, P.E., Dunaway, at 972-782-4683.

Issuance Date: June 23, 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 MODIFICACION

#### PERMISO NO. WQ0014778001

**SOLICITUD.** La ciudad de Farmersville, 205 South Main Street, Farmersville, Texas 75442, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0014778001 (EPA I.D. No. TX 0129402) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar un aumento en la descarga de aguas residuales tratadas a un volumen que no exceda un caudal promedio diario de 1,500,000 galones por día. La planta está ubicada aproximadamente a 0.5 millas al suroeste de la intersección de la CR 550 y la SH 78, cerca de la ciudad de Farmersville, en el Condado de Collin, Texas 75442. La ruta de descarga es del sitio de la planta un afluente sin nombre; de allí hasta el brazo Elm Creek del lago Lavon. La TCEQ recibió esta solicitud el 9 de junio de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en ayuntamiento de Farmersville, vestíbulo público, 205 South Main Street, Farmersville, condado de Collin, 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/tpdes-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=-96.418055,33.103888&level=18

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

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 una audiencia administrativa de lo contencioso una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso.

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

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

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

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se 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 <u>www.tceq.texas.gov/goto/cid</u>. 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 ciudad de Farmersville a la dirección indicada arriba o llamando a Señor Eddy Daniel, P.E., Dunaway, a 972-782-4683

Fecha de emisión: 23 de junio de 2025



To whom it may concern,

Included in this package is the completed Municipal/Domestic Wastewater Permit Major Amendment Renewal Application and 2 required copies for the Farmersville WWTP #3 (RN105156343) on behalf of the City of Farmersville (CN600423107).

The electronic copy to TCEQ's file transfer protocol (FTP) server and the payment via check (details within) have been sent separately from this package.

Please forward any questions to the Administrative and/or Technical Contact listed in the application.

Thank you,

Cody Wootton, EIT

Graduate Engineer

RECEIVEL JUN 09 2025 later Quality Applications Team

118 McKinney Street // PO Box 606 // Farmersville, Texas 75442 972.784.7777 dunaway.com Firm Registration No: F-1114



# **City of Farmersville**

Farmersville Wastewater Treatment Plant #3 Major Amendment Renewal Application

June 2025

JUN 09 2025 Water Quality Applications Team



# ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



# DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

# Complete and submit this checklist with the application.

# APPLICANT NAME: <u>City of Farmersville</u> PERMIT NUMBER (If new, leave blank): WQ00 <u>14778001</u> **Indicate if each of the following items is included in your application.**

Y

N

	-	14
Administrative Report 1.0	$\boxtimes$	
Administrative Report 1.1	$\boxtimes$	2
SPIF	$\boxtimes$	
Core Data Form		
Public Involvement Plan Form	$\boxtimes$	
Technical Report 1.0	$\boxtimes$	
Technical Report 1.1	$\boxtimes$	
Worksheet 2.0	$\boxtimes$	
Worksheet 2.1		$\boxtimes$
Worksheet 3.0		$\boxtimes$
Worksheet 3.1		$\boxtimes$
Worksheet 3.2		$\boxtimes$
Worksheet 3.3		$\boxtimes$
Worksheet 4.0	$\boxtimes$	
Worksheet 5.0		$\boxtimes$
Worksheet 6.0	$\boxtimes$	
Worksheet 7.0	$\boxtimes$	

	Y	N
Original USGS Map	$\boxtimes$	
Affected Landowners Map	$\boxtimes$	
Landowner Disk or Labels	$\boxtimes$	
Buffer Zone Map	$\boxtimes$	
Flow Diagram	$\boxtimes$	
Site Drawing	$\boxtimes$	
Original Photographs	$\boxtimes$	
Design Calculations		
Solids Management Plan		
Water Balance		

\$ 7

NT

# For TCEQ Use Only Segment Number \_\_\_\_\_County \_\_\_\_\_ Expiration Date \_\_\_\_\_\_Region\_\_\_\_\_ Permit Number \_\_\_\_\_

TCEQ-10053 (01/09/2024) Domestic Wastewater Permit Application Administrative Report

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 <b></b>	\$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: Click to ent	er text.
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 Wastewater Treatment
- **b.** Check the box next to the appropriate facility status.
  - ⊠ Active □ Inactive

- c. Check the box next to the appropriate permit type.
  - ☑ TPDES Permit
  - □ TLAP
  - TPDES Permit with TLAP component
  - Subsurface Area Drip Dispersal System (SADDS)
- **d.** Check the box next to the appropriate application type
  - New
  - ⊠ Major Amendment <u>with</u> Renewal
  - □ Major Amendment <u>without</u> Renewal
- Minor Amendment <u>with</u> Renewal
- Minor Amendment <u>without</u> Renewal
- Renewal without changes
- Minor Modification of permit
- e. For amendments or modifications, describe the proposed changes: <u>Expansion of facilities from</u> 0.5 to 1.5 MGD to account for population growth in area served.
- f. For existing permits:

Permit Number: WQ00 <u>14778001</u> EPA I.D. (TPDES only): TX <u>0129402</u>

Expiration Date: <u>10/23/2028</u>

# 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?

# City of Farmersville

(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 <u>http://www15.tceq.texas.gov/crpub/</u>

# CN: <u>600423107</u>

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: <u>Mr.</u>	Last Name, First Name: <u>Daniel, Eddy</u>
Title: <u>City Engineer</u>	Credential: <u>P.E.</u>

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

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

## Click to enter text.

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the

#### legal documents forming the entity.)

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

CN: Click to enter text.

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

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

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

#### C. Core Data Form

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

# 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: <u>Mr.</u>	Last Name,	First Name: Wootto	n, Co	<u>dy</u>
	Title: <u>Graduate Engineer</u>	Credential:	<u>E.I.T.</u>		
	Organization Name: Dunaway				
	Mailing Address: <u>118 McKinney St</u>	reet C	City, State, Zip Code	: <u>Farr</u>	<u>nersville, TX 75442</u>
	Phone No.: <u>972-784-7777</u>	E-mail Add	dress: <u>cwootton@dur</u>	naway	<u>.com</u>
	Check one or both: 🛛 Adr	ninistrative (	Contact	$\boxtimes$	Technical Contact
B.	Prefix: <u>Mr.</u>	Last Name,	First Name: <u>Dupuis</u> ,	Jaco	<u>b</u>
	Title: Senior Discipline Lead	Credential:	<u>P.E</u>		
	Organization Name: Dunaway				
	Mailing Address: 118 McKinney Str	<u>eet</u> C	ity, State, Zip Code:	<u>Farn</u>	nersville, TX 75442
	Phone No.: <u>972-784-7777</u>	E-mail Add	lress: <u>jdupuis@duna</u> v	way.c	om
	Check one or both: 🛛 Adn	ninistrative C	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: <u>Mr.</u>	Last Name, First Name: <u>White, Benjamin L</u>
	Title: <u>City Manager</u>	Credential: <u>P.E., CPM</u>
	Organization Name: City of Farme	rsville
	Mailing Address: <u>205 S Main Stree</u>	City, State, Zip Code: <u>Farmersville, TX 75442</u>

Phone	No.:	972-'	781-6151	

B.	Prefix: <u>Mr.</u>	Last Name, First Name: <u>Daniel, Eddy</u>
	Title: <u>City Engineer</u>	Credential: <u>P.E.</u>
	Organization Name: Dunaway	
	Mailing Address: <u>PO Box 606</u>	City, State, Zip Code: <u>Farmersville, TX 75442</u>
	Phone No.: <u>972-782-4683</u>	E-mail Address: <u>edaniel@dunaway.com</u>

E-mail Address: b.white@farmersvilletx.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: <u>Mr.</u>	Last Name, First Name: <u>White, Benjamin L</u>
Title: <u>City Manager</u>	Credential: <u>P.E., CPM</u>
Organization Name: City of Farmer	rsville
Mailing Address: 205 S Main Street	City, State, Zip Code: <u>Farmersville, TX 75442</u>
Phone No.: <u>972-782-6151</u>	E-mail Address: <u>b.white@farmersvilletx.com</u>

# 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: <u>Mr.</u>	Last Name, First Name: <u>White, Benjamin L</u>
Title: <u>City Manager</u>	Credential: <u>P.E., CPM</u>
Organization Name: City of Farmer	sville
Mailing Address: 205 S Main Street	City, State, Zip Code: <u>Farmersville, TX 75442</u>
Phone No.: <u>972-782-6151</u>	E-mail Address: <u>b.white@farmersvilletx.com</u>

# Section 8. Public Notice Information (Instructions Page 27)

## A. Individual Publishing the Notices

Last Name, First Name: <u>Daniel, Eddy</u>
Credential: <u>P.E.</u>
City, State, Zip Code: <u>Farmersville, TX 75442</u>
E-mail Address: <u>edaniel@dunaway.com</u>

# 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: <u>Mr.</u>	Last Name, First Name: <u>Daniel, Eddy</u>		
Title: <u>City Engineer</u>	Credential: <u>P.E.</u>		
Organization Name: <u>Dunaway</u>			
Mailing Address: <u>PO Box 606</u>	City, State, Zip Code: <u>Farmersville, TX 75442</u>		

Phone No.: <u>972-782-4683</u> E-mail Address: <u>edaniel@dunaway.com</u>

## **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: City Hall

Location within the building: Public Foyer

Physical Address of Building: 205 S Main Street

City: <u>Farmersville</u> County: <u>Collin</u>

Contact (Last Name, First Name): White, Benjamin L

Phone No.: 972-782-6151 Ext.: Click to enter text.

## E. Bilingual Notice Requirements

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

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

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

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

🛛 Yes 🗆 No

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

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

🛛 Yes 🗖 No

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

🛛 Yes 🗆 No

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

🛛 Yes 🗆 No

- 5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Click to enter text.
- F. Plain Language Summary Template

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

Attachment: Appendix C

G. Public Involvement Plan Form

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

Attachment: Appendix D

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN <u>105156343</u>

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

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

City of Farmerville Waste Water Treatment Plant #3

C. Owner of treatment facility: City of Farmersville

Ownership of Facility: 🛛 Public 🗖 Private 🗖 Both 🗖 Federal

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

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

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

Organization Name: City of Farmersville

Mailing Address: 205 S main Street City, State, Zip Code: Farmersville, TX 75442

Phone No.: <u>972-782-6151</u>

E-mail Address: <u>b.white@farmersvilletx.com</u>

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: N/ALast Name, First Name: Click to enter text.Title: Click to enter text.Credential: Click to enter text.Organization Name: Click to enter text.City, State, Zip Code: 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.

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

# Section 10. TPDES Discharge Information (Instructions Page 31)

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

🖾 Yes 🗆 No

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

Click to enter text.

- **B.** Are the point(s) of discharge and the discharge route(s) in the existing permit correct?
  - 🖾 Yes 🗆 No

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

Click to enter text.

City nearest the outfall(s): <u>City of Farmerville</u>

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

- **C.** Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
  - 🗆 Yes 🛛 No

If yes, indicate by a check mark if:

□ Authorization granted □ Authorization pending

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

Attachment: Click to enter text.

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

# Section 11. TLAP Disposal Information (Instructions Page 32)

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

🗆 Yes 🗖 No

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

Click to enter text.

- B. City nearest the disposal site: Click to enter text.
- C. County in which the disposal site is located: Click to enter text.
- **D.** For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

Click to enter text.

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

# Section 12. Miscellaneous Information (Instructions Page 32)

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

🗆 Yes 🖾 No

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

🗆 Yes 🗆 No 🖾 Not Applicable

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

Click to enter text.

- **C.** Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
  - 🗆 Yes 🛛 No

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

D. Do you owe any fees to the TCEQ?

🗆 Yes 🖾 No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

🗆 Yes 🛛 No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

# Section 13. Attachments (Instructions Page 33)

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

- Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- Original full-size USGS Topographic Map with the following information:
  - Applicant's property boundary

Appendix E

- 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: Click to enter text.

# Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0014778001

Applicant: City of Farmersville

## 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): Eddy Daniel, P.E.

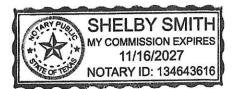
Signatory title: City Engineer

Signature: Clock (Use blu	Dulpe. le ink)	Date: <u>5/</u>	28/2025
Subscribed and Swor	n to before me by the said	Eddy Pani	
on this $\checkmark \%$	day of^	1ay	, 20 <u>25</u>
My commission expir	es on the 🔰 🖉 day	of November	. 20 25

12 Amoth

Notary Public

[SEAL]



County, Texas

# DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

# Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
  - The applicant's property boundaries

Appendix F

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

Word Document attached to application

- D. Provide the source of the landowners' names and mailing addresses: Appendix F
- **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;

Appendix H

- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.
- **B.** Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.
  - ⊠ Ownership
  - Restrictive easement
  - Nuisance odor control
  - □ Variance
- **C.** Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?
  - 🗆 Yes 🛛 No

# DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Appendix A

# ATTACHMENT 1

# INDIVIDUAL INFORMATION

# Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

# DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

Core Data Form (TCEQ Form No. 10400) (Required for all application types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)		Yes
Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)	$\boxtimes$	Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mailing ad	⊠ ldress	Yes s.)
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)		Yes
Current/Non-Expired, Executed Lease Agreement or Easement 🛛 🕅 N/A		Yes
Landowners Map $\square$ N/A (See instructions for landowner requirements)	$\boxtimes$	Yes

## Things to Know:

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

Landowners Cross Reference List (See instructions for landowner requirements)		N/A		Yes
Landowners Labels or USB Drive attached (See instructions for landowner requirements)		N/A	$\boxtimes$	Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred (If signature page is not signed by an elected official or principle exec a copy of signature authority/delegation letter must be attached)	cutive	e officer	⊠,	Yes
Plain Language Summary			$\boxtimes$	Yes
	D		D.	

TCEQ-10053 (01/09/2024) Domestic Wastewater Permit Application Administrative Report

# TECHNICAL REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



# DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

## A. Existing/Interim I Phase

Design Flow (MGD): <u>0.5</u> 2-Hr Peak Flow (MGD): <u>2.0</u> Estimated construction start date: <u>November 2024</u> Estimated waste disposal start date: <u>May 2026</u>

# **B. Interim II Phase**

Design Flow (MGD): <u>0.75</u> 2-Hr Peak Flow (MGD): <u>3.0</u> Estimated construction start date: <u>June 2026</u> Estimated waste disposal start date: <u>December 2028</u>

# C. Final Phase

Design Flow (MGD): <u>1.5</u> 2-Hr Peak Flow (MGD): <u>6.0</u> Estimated construction start date: <u>December 2028</u> Estimated waste disposal start date: <u>June 2030</u>

# **D. Current Operating Phase**

Provide the startup date of the facility: October, 2024

# Section 2. Treatment Process (Instructions Page 43)

## 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**.

Existing Phase: Influent from the on-site lift station passes through a 2mm fine screen to an anaerobic basin. It is then sent through anoxic and aerobic basins before the MBR membrane basin. It is then sent through ultraviolet disinfection via permeate pumps before effluent discharge by gravity to the discharge site.

Interim I Phase: Additional/identical units will receive influent from the lift station and release effluent at the same discharge site.

Final Phase: Additional/identical units will receive influent from the lift station and release effluent at the same discharge site.

#### **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)
Anaerobic basin	6	26' x 9' x 17'6"
Anoxic basin	6	42' x 11' x 17'6"
Aerobic basin	6	26' x 16' x 17'6''
Membrane basin	6	42' x 13' x 17'6"
Screw sludge press	2	47' x 20'2" x 14'2"
Ultraviolet disinfection	6	

## C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction. Attachment: <u>Appendix I</u>

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

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

- Latitude: <u>33.105028</u>
- Longitude: <u>-96.416861</u>

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

- Latitude: <u>N/A</u>
- Longitude: <u>N/A</u>

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

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

#### Attachment: Appendix J

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

City of Farmersville and Lakehaven Municipal Utility District

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
City of Farmersville	City of Farmersville	Publicly Owned	3612
		Choose an item.	
		Choose an item.	
		Choose an item.	

# Section 4. Unbuilt Phases (Instructions Page 45)

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

🗆 Yes 🛛 No

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

🗆 Yes 🗆 No

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

Click to enter text.

# Section 5. Closure Plans (Instructions Page 45)

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

🗆 Yes 🛛 No

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

🗆 Yes 🗆 No

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

Click to enter text.

# Section 6. Permit Specific Requirements (Instructions Page 45)

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**.

Click to enter text.			
		and a set of the set o	

#### **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.

Most of the buffer is through ownership, supplemented with a restrictive easement into the next property.

#### C. Other actions required by the current permit

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

🗆 Yes 🖾 No

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

Click to enter text.			

#### D. Grit and grease treatment

#### 1. Acceptance of grit and grease waste

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

🗆 Yes 🖾 No

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

#### 2. Grit and grease processing

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

#### 3. Grit disposal

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

🗆 Yes 🗖 No

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

Describe the method of grit disposal.

Click to enter text.

4. Grease and decanted liquid disposal

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

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

Click to enter text.

#### E. Stormwater management

1. Applicability

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

🖾 Yes 🗆 No

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

🗆 Yes 🖾 No

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

#### 2. MSGP coverage

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

🗆 Yes 🖾 No

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

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

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

🗆 Yes 🛛 No

#### 3. Conditional exclusion

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

🗆 Yes 🛛 No

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

Click to enter text.

#### 4. Existing coverage in individual permit

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

🗆 Yes 🖾 No

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

Click to enter text.

## 5. Zero stormwater discharge

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

🖾 Yes 🗆 No

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

Stormwater is discharged into on-site lift station that feeds into the WWTP.

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

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

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

🗆 Yes 🗆 No

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

intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click to enter text.

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

#### F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

🗆 Yes 🖾 No

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

#### 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<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

#### 2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

🗆 Yes 🖾 No

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

🗆 Yes 🗆 No

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

🗆 Yes 🗖 No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the  $BOD_5$  concentration of the septic waste, and the

design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

🗆 Yes 🖾 No

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

Click to enter text.

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

Is the facility in operation?

🛛 Yes 🗆 No

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO₃)*, mg/l					

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

\*TPDES permits only

**†TLAP** permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO3), mg/l					

## Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: <u>Derek Deutsch</u>

Facility Operator's License Classification and Level: C

Facility Operator's License Number: <u>WW0054691</u>

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

#### A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- $\boxtimes$  Design flow>= 1 MGD
- $\Box \quad Serves >= 10,000 \text{ people}$
- Class I Sludge Management Facility (per 40 CFR § 503.9)
- Biosolids generator
- Biosolids end user land application (onsite)
- Biosolids end user surface disposal (onsite)
- Biosolids end user incinerator (onsite)

#### **B. WWTP's Biosolids Treatment Process**

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: <u>Anaerobic Digestion</u>

#### C. Biosolids Management

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

all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

#### **Biosolids Management**

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk	1.45	Class B: PSRP Aerobic Digestion	Option 5: Aerobic process for 14 days at >40C
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

#### D. Disposal site

Disposal site name: <u>North Texas Municipal Water District Waste Water Treatment Facility</u> TCEQ permit or registration number: <u>WQ0010363001</u> County where disposal site is located: <u>Collin</u>

#### E. Transportation method

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

Name of the hauler: North Texas Municipal Water District

Hauler registration number: 22488

Sludge is transported as a:

Liquid 🗖

semi-liquid 🗖

semi-solid 🗖

solid 🛛

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

#### A. Beneficial use authorization

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

🗆 Yes 🖾 No

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

🗆 Yes 🗆 No

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

#### 🗆 Yes 🗆 No

#### B. Sludge processing authorization

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

Sludge Composting	Yes	$\boxtimes$	No
Marketing and Distribution of sludge	Yes	$\boxtimes$	No
Sludge Surface Disposal or Sludge Monofill	Yes	$\boxtimes$	No
Temporary storage in sludge lagoons	Yes	$\bowtie$	No

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

🗆 Yes 🗆 No

## Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

🗆 Yes 🖾 No

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

#### A. Location information

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

• Original General Highway (County) Map:

Attachment: Click to enter text.

• USDA Natural Resources Conservation Service Soil Map:

Attachment: Click to enter text.

• Federal Emergency Management Map:

Attachment: Click to enter text.

• Site map:

#### Attachment: Click to enter text.

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

- Overlap a designated 100-year frequency flood plain
- □ Soils with flooding classification
- Overlap an unstable area
- □ Wetlands
- Located less than 60 meters from a fault
- None of the above
- Attachment: Click to enter text.

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

Click to enter text.

#### **B.** Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.* 

Nitrate Nitrogen, mg/kg: Click to enter text. Total Kjeldahl Nitrogen, mg/kg: Click to enter text. Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text. Phosphorus, mg/kg: Click to enter text. Potassium, mg/kg: Click to enter text. pH, standard units: Click to enter text. Ammonia Nitrogen mg/kg: Click to enter text. Arsenic: Click to enter text. Cadmium: Click to enter text. Chromium: Click to enter text. Copper: Click to enter text. Lead: Click to enter text. Mercury: Click to enter text. Molybdenum: Click to enter text. Nickel: Click to enter text. Selenium: Click to enter text. Zinc: Click to enter text. Total PCBs: Click to enter text.

Provide the following information:

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

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<sup>-7</sup> cm/sec?

🗆 Yes 🗆 No

Click to enter text.

## D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
   Attachment: <u>Click to enter text.</u>
- Copy of the closure plan
   Attachment: <u>Click to enter text.</u>
- Copy of deed recordation for the site Attachment: <u>Click to enter text.</u>
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons Attachment: <u>Click to enter text.</u>
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

Attachment: Click to enter text.

• Procedures to prevent the occurrence of nuisance conditions

Attachment: Click to enter text.

### E. Groundwater monitoring

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

🗆 Yes 🗆 No

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

Attachment: Click to enter text.

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

#### A. Additional authorizations

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

🗆 Yes 🖾 No

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

Click to enter text.		

#### **B.** Permittee enforcement status

Is the permittee currently under enforcement for this facility?

🗆 Yes 🖾 No

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

🗆 Yes 🖾 No

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

Click to enter text.

## 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 56)

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

- The laboratory is an in-house laboratory and is:
  - o periodically inspected by the TCEQ; or
    - o located in another state and is accredited or inspected by that state; or
    - o 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: Benjamin L. White, P.E., CPM

Title: City Manager

Zn Signature: \_\_/~ Date: 29 May Zoz5

# DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

## Section 1. Justification for Permit (Instructions Page 57)

#### A. Justification of permit need

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

Expansion of the Lakehaven subdivision and Farmersville in general will push the need beyond what is currently permitted.

#### **B.** Regionalization of facilities

For additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> <u>Treatment</u><sup>1</sup>.

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: <u>Click to enter text.</u>

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

<sup>&</sup>lt;sup>1</sup> <u>https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater</u>

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

Attachment: Click to enter text.

#### 3. Nearby WWTPs or collection systems

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

🗆 Yes 🖾 No

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

#### Attachment: Click to enter text.

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

#### Attachment: Click to enter text.

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

Attachment: Click to enter text.

## Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

🖾 Yes 🗆 No

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

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

#### A. Current organic loading

Facility Design Flow (flow being requested in application): <u>1.5 MGD</u>

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: <u>350</u>

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): 2190.7

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

Click to enter text.

#### **B.** Proposed organic loading

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

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	0.57	2,280,000
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD₅ from all sources		

Table 1.1(1) – Design Organic Loading

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

#### A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: <u>10</u> Total Suspended Solids, mg/l: <u>15</u> Ammonia Nitrogen, mg/l: <u>3</u> Total Phosphorus, mg/l: <u>0.5</u>

Dissolved Oxygen, mg/l:  $\geq 4$ 

Other: Click to enter text.

### B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: <u>10</u> Total Suspended Solids, mg/l: <u>15</u> Ammonia Nitrogen, mg/l: <u>3</u> Total Phosphorus, mg/l: <u>0.5</u> Dissolved Oxygen, mg/l: <u>>4</u> Other: <u>Click to enter text.</u>

## C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: >4

Other: Click to enter text.

#### **D. Disinfection Method**

Identify the proposed method of disinfection.

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

Dechlorination process: Click to enter text.

- Ultraviolet Light: <u>Click to enter text.</u> seconds contact time at peak flow
- □ Other: <u>Click to enter text.</u>

## Section 4. Design Calculations (Instructions Page 59)

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

Attachment: Appendix K

## Section 5. Facility Site (Instructions Page 60)

#### A. 100-year floodplain

Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?

🛛 Yes 🗆 No

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

Click to enter text.

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

FEMA's NFHL interactive map system

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: <u>Click to enter text.</u>

B. Wind rose

Attach a wind rose: Appendix L

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

#### A. Beneficial use authorization

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

🗆 Yes 🖾 No

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

#### 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): <u>Click to enter text.</u>

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

Attach a solids management plan to the application.

#### Attachment: <u>Appendix M</u>

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 64)

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

🗆 Yes 🖾 No

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

Owner of the drinking water supply: <u>Click to enter text.</u>

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

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

Attachment: Click to enter text.

# Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

🗆 Yes 🛛 No

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

#### A. Receiving water outfall

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

#### **B.** Oyster waters

Are there oyster waters in the vicinity of the discharge?

🗆 Yes 🗆 No

If yes, provide the distance and direction from outfall(s).

Click to enter text.

#### C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

🗆 Yes 🗆 No

If yes, provide the distance and direction from the outfall(s).

Click to enter text.

## Section 3. Classified Segments (Instructions Page 64)

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

🛛 Yes 🗆 No

If yes, this Worksheet is complete.

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

## Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

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

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

- Stream
- Freshwater Swamp or Marsh
- Lake or Pond

Surface area, in acres: Click to enter text.

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

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

- □ Man-made Channel or Ditch
- Open Bay
- □ Tidal Stream, Bayou, or Marsh
- □ Other, specify: <u>Click to enter text.</u>

#### **B.** Flow characteristics

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

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

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

Perennial - normally flowing

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

- □ USGS flow records
- Historical observation by adjacent landowners
- Personal observation
- □ Other, specify: <u>Click to enter text.</u>

#### C. Downstream perennial confluences

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

Click to enter text.

#### **D.** Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

🗆 Yes 🗆 No

If yes, discuss how.

Click to enter text.

#### E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

🗆 Yes 🗆 No

## Section 5. General Characteristics of the Waterbody (Instructions Page 66)

#### A. Upstream influences

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

- Oil field activities
  Urban runoff
- Upstream discharges
  Agricultural runoff
- Septic tanks

□ Other(s), specify: Click to enter text.

#### B. Waterbody uses

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

- □ Livestock watering
- □ Irrigation withdrawal
- Fishing
- Domestic water supply
- Park activities

- Contact recreation
- Non-contact recreation
- Navigation
- Industrial water supply
- □ Other(s), specify: <u>Click to enter text.</u>

#### C. Waterbody aesthetics

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

## Section 1. General Information (Instructions Page 66)

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

Stream name: Click to enter text.

Location: <u>Click to enter text.</u>

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

Perennial 
Intermittent with perennial pools

## Section 2. Data Collection (Instructions Page 66)

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

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

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

□ Minor □ moderate □ severe

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

Click to enter text.

#### Stream transects

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

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

Table 2.1(1) - Stream Transect Records

## Section 3. Summarize Measurements (Instructions Page 66)

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

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

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

Number of lateral transects made: Click to enter text.

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

Average stream depth, in feet: <u>Click to enter text.</u>

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

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

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

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

## Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

Surface application

Irrigation

Evaporation

Subsurface application

Subsurface area drip dispersal system

- Subsurface soils absorption
- Drip irrigation system
  - Evapotranspiration beds
- □ Other (describe in detail): <u>Click to enter text.</u>

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 68)

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

#### Table 3.0(1) - Land Application Site Crops

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

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

#### Table 3.0(2) - Storage and Evaporation Ponds

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

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

Attachment: Click to enter text.

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

Is the land application site <u>within</u> the 100-year frequency flood level?

🗆 Yes 🗆 No

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

Click to enter text.

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

Click to enter text.

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

Click to enter text.

## Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. Attachment: <u>Click to enter text.</u>

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

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

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. Attachment: <u>Click to enter text.</u>

- 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	3.0(3)	- Water	Well Data
---------	--------	---------	-----------

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: Click to enter text.

## Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? 🔲 Yes 🛛 🔲 No

Do you plan to install ground water monitoring wells or lysimeters around the land application site?

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 70)

#### A. Soil map

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

Attachment: Click to enter text.

#### **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: Click to enter text.

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

Table	3.0(4	4) -	Soil	Data
-------	-------	------	------	------

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
			÷	

## Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

🗆 Yes 🗆 No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
						-
2						

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

Click to enter text.

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

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

## Section 1. Surface Disposal (Instructions Page 72)

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

#### A. Irrigation

Area under irrigation, in acres: <u>Click to enter text.</u>

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

#### **B.** Evaporation ponds

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

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

Attachment: Click to enter text.

#### C. Evapotranspiration beds

Number of beds: <u>Click to enter text.</u>

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

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

Void ratio of soil in the beds: <u>Click to enter text.</u>

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

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

Attachment: Click to enter text.

#### D. Overland flow

Area used for application, in acres: <u>Click to enter text.</u> Slopes for application area, percent (%): <u>Click to enter text.</u> Design application rate, in gpm/foot of slope width: <u>Click to enter text.</u> Slope length, in feet: <u>Click to enter text.</u>

Design BOD<sub>5</sub> loading rate, in lbs BOD<sub>5</sub>/acre/day: Click to enter text.

Design application frequency:

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

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

Attachment: Click to enter text.

## Section 2. Edwards Aquifer (Instructions Page 73)

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

🗆 Yes 🗆 No

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

🗆 Yes 🗆 No

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

Attachment: Click to enter text.

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

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

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

## Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

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

Application area, in acres: <u>Click to enter text.</u>

Area of drainfield, in square feet: <u>Click to enter text.</u>

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

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

Area of trench, in square feet: <u>Click to enter text.</u>

Dosing duration per area, in hours: <u>Click to enter text.</u>

Number of beds: Click to enter text.

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

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

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

## Section 2. Edwards Aquifer (Instructions Page 74)

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

🗆 Yes 🗆 No

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

🗆 Yes 🗆 No

**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.

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## 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 75)

- 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.** <u>Click to enter text.</u> Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

🗆 Yes 🗆 No

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

Click to enter text.

- C. Owner of the subsurface area drip dispersal system: Click to enter text.
- **D.** Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

🗆 Yes 🗆 No

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

Click to enter text.

- E. Owner of the land where the subsurface area drip dispersal system is located: <u>Click to</u> <u>enter text.</u>
- **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 75)

#### A. Type of system

- □ Subsurface Drip Irrigation
- □ Surface Drip Irrigation
- □ Other, specify: <u>Click to enter text.</u>

#### **B.** Irrigation operations

Application area, in acres: <u>Click to enter text.</u>

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

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

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

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

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

#### C. Application rate

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

🗆 Yes 🗆 No

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

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

🗆 Yes 🗆 No

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

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

🗆 Yes 🗆 No

Hydraulic application rate, in gal/square foot/day: <u>Click to enter text.</u> Nitrogen application rate, in lbs/gal/day: <u>Click to enter text.</u>

#### **D.** Dosing information

Number of doses per day: Click to enter text.

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

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

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

Number of zones: Click to enter text.

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

## 🗆 Yes 🗆 No

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

Attachment: Click to enter text.

## Section 3. Required Plans (Instructions Page 75)

#### A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*. Attachment: <u>Click to enter text.</u>

#### **B.** Soil evaluation

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

Attachment: Click to enter text.

#### C. Site preparation plan

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

Attachment: Click to enter text.

#### D. Soil sampling/testing

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

Attachment: Click to enter text.

## Section 4. Floodway Designation (Instructions Page 76)

#### A. Site location

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

🗆 Yes 🗆 No

### B. Flood map

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

Attachment: Click to enter text.

## Section 5. Surface Waters in the State (Instructions Page 76)

## A. Buffer Map

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

## Attachment: Click to enter text.

#### **B.** Buffer variance request

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

🗆 Yes 🗆 No

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

Attachment: Click to enter text.

## Section 6. Edwards Aquifer (Instructions Page 76)

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 78)

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

Grab 🗆 Composite 🗆

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

Table	4.0(1)	) -	<b>Toxics</b>	Anal	ysis
-------	--------	-----	---------------	------	------

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

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

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin		1		0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane				0.05
(Lindane)				
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor			<u>`</u>	2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10

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

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

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

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

## Section 2. Priority Pollutants

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

Grab 🗆 Composite 🗆

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

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

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

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

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

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

## Table 4.0(2)B – Volatile Compounds

## Table 4.0(2)C – Acid Compounds

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

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

## Table 4.0(2)D – Base/Neutral Compounds

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin		2		0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)		51		0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

Table 4.0(2)E - Pesticides

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

## Section 3. Dioxin/Furan Compounds

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

2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5
2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4
0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3
2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4
hexachlorophene
Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

🗆 Yes 🗆 No

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

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

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

Grab 🗆 Composite 🗆

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

### Table 4.0(2)F – Dioxin/Furan Compounds

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

## DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

#### Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: Click to enter text.

48-hour Acute: <u>Click to enter text.</u>

### Section 2. Toxicity Reduction Evaluations (TREs)

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

🗆 Yes 🗆 No

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

## Section 3. Summary of WET Tests

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

#### Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	-		

## DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

#### Section 1. All POTWs (Instructions Page 89)

#### A. Industrial users (IUs)

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

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

**Categorical IUs:** 

Number of IUs: o

Average Daily Flows, in MGD: Click to enter text.

Significant IUs - non-categorical:

Number of IUs: o

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: o

Average Daily Flows, in MGD: <u>Click to enter text.</u>

#### **B.** Treatment plant interference

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

🗆 Yes 🖾 No

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

#### C. Treatment plant pass through

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

🗆 Yes 🖾 No

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

Click to enter text.		

#### D. Pretreatment program

Does your POTW have an approved pretreatment program?

🗆 Yes 🖾 No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

🗆 Yes 🗆 No

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

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

# Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

#### A. Substantial modifications

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

🗆 Yes 🗆 No

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

#### **B.** Non-substantial modifications

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

🗆 Yes 🗆 No

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

Click to enter text.

#### C. Effluent parameters above the MAL

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

#### Table 6.0(1) - Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date	
		_			

#### **D.** Industrial user interruptions

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

🗆 Yes 🖾 No

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

## Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

#### A. General information

Company Name: <u>N/A</u> SIC Code: <u>Click to enter text.</u> Contact name: <u>Click to enter text.</u> Address: <u>Click to enter text.</u> City, State, and Zip Code: <u>Click to enter text.</u> Telephone number: <u>Click to enter text.</u> Email address: <u>Click to enter text.</u>

#### **B.** Process information

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

N/A

#### C. Product and service information

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

N/A

#### **D.** Flow rate information

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

**Process Wastewater:** 

Discharge, in gallons/day: <u>N/A</u>

Discharge Type: 🗖	Continuous	Batch	Intermittent
Non-Process Wastewate	er:		
Discharge, in gallon	s/day: <u>N/A</u>		
Discharge Type: 🗖	Continuous	Batch	Intermittent

#### E. Pretreatment standards

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

🗆 Yes 🖾 No

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

🗆 Yes 🛛 No

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

Category: Subcategories: N/A

Click or tap here to enter text. Click to enter text.

Category: N/A

Subcategories: Click to enter text.

Category: NA

Subcategories: Click to enter text.

Category: <u>NA</u>

Subcategories: Click to enter text.

Category: NA

Subcategories: Click to enter text.

#### F. Industrial user interruptions

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

🗆 Yes 🖾 No

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

## 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\_\_\_\_\_

> RN: 105156343 10/24/2013

#### Section 1. General Information (Instructions Page 92)

#### 1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): <u>Click to enter text.</u>

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

#### 2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: <u>Click to enter text.</u>

Phone Number: Click to enter text.

#### 3. Owner/Operator Contact Information

□ Owner □ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: <u>Click to enter text.</u>

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: <u>Click to enter text.</u>

Address: Click to enter text.

City, State, and Zip Code: <u>Click to enter text.</u>

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

Facility Contact Person: <u>Click to enter text.</u>

Phone Number: Click to enter text.

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

Latitude: <u>Click to enter text.</u> Longitude: <u>Click to enter text.</u> Method of determination (GPS, TOPO, etc.): <u>Click to enter text.</u> Attach topographic quadrangle map as attachment A.

#### 6. Well Information

Type of Well Construction, select one:

- Vertical Injection
- □ Subsurface Fluid Distribution System
- □ Infiltration Gallery
- Temporary Injection Points
- □ Other, Specify: <u>Click to enter text</u>.

Number of Injection Wells: Click to enter text.

#### 7. Purpose

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

#### 8. Water Well Driller/Installer

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

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

Phone Number: Click to enter text.

License Number: Click to enter text.

### Section 2. Proposed Down Hole Design

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

#### Table 7.0(1) - Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

## Section 4. Site Hydrogeological and Injection Zone Data

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

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

Name: Click to enter text.

Thickness: Click to enter text.

- 8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer Attach as Attachment E.
- **9.** Horizontal and Vertical extent of contamination and injection plume Attach as Attachment F.
- 10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc. Attach as Attachment G.
- **11.** Injection Fluid Chemistry in PPM at point of injection Attach as Attachment H.
- 12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: <u>Click to enter text.</u>
- 13. Maximum injection Rate/Volume/Pressure: <u>Click to enter text.</u>
- 14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
- **15.** Injection wells within 1/4 mile radius (attach map as Attachment J): <u>Click to enter</u> <u>text.</u>
- **16.** Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): <u>Click to enter text.</u>
- 17. Sampling frequency: <u>Click to enter text.</u>
- 18. Known hazardous components in injection fluid: Click to enter text.

## Section 5. Site History

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

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

#### **Class V Injection Well Designations**

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

## **APPENDIX A**

SUPPLEMENTAL PERMIT INFORMATION FORM

## **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:RenewalMajor An	nendmentMinor AmendmentNew
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 <u>WO-ARPTeam@tceq.texas.gov</u> or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: <u>City of Farmersville</u>

Permit No. WQ00 <u>14778001</u>

EPA ID No. TX <u>0129402</u>

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

Located approximately 0.5 mile southwest of the intersection of State Highway 78 and County Road 550 in Collin County, Texas

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): <u>Mr.</u> First and Last Name: <u>Benjamin L. White</u> Credential (P.E, P.G., Ph.D., etc.): <u>P.E., CPM</u> Title: <u>City Manager</u> Mailing Address: <u>205 S Main Street</u> City, State, Zip Code: <u>Farmersville, TX 75442</u> Phone No.: <u>972-782-6151</u> Ext.: Fax No.: <u>972-782-6604</u> E-mail Address: <u>b.white@farmersvilletx.com</u>

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

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.

To an unnamed tributary; thence to the Elm Creek Arm of Lavon Lake in Segment No. 821 of the Trinity River Basin

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):

<u>N/A</u>

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

## 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: June 2023-Dec 2024
- 4. Provide a brief history of the property, and name of the architect/builder, if known. <u>Field/ag land before purchased for use for WWTP. Construction on property has been for</u> <u>the purpose of the WWTP.</u>

## **APPENDIX B**

CORE DATA FORM



## **TCEQ Core Data Form**

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

## **SECTION I: General Information**

New Permit, Registration or Authorization (Core L	Data Form should be submitted with	the program application )
Renewal (Core Data Form should be submitted wi	th the renewal form)	Other Major Amendment Renewal
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in	3. Regulated Entity Reference Number (if issued)
CN 600423107	Central Registry**	RN 105156343

## **SECTION II: Customer Information**

4. General C	General Customer Information         5. Effective Date for Customer Information Updates (mm/dd/yyyy)											
New Custo		U (Verifiable with the Tex	pdate to Custon as Secretary of S			ptrolle		nge in Regulated Ent c Accounts)	tity Owne	ership		
		ubmitted here may l oller of Public Accou		tomatical	lly base	ed on t	what is c	current and active	with th	e Texas Se	cretary of State	
6. Customer	Legal Nan	ne (If an individual, prin	nt last name firsi	t: eg: Doe, .	John)			If new Customer,	enter pre	vious Custo	mer below:	
City of Farmer	sville											
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits)				ligits)			9. Federal Tax I (9 digits)	D	10. DUNS applicable	Number (if )		
11. Type of C	ustomer:	Corporat	ion				🗌 Individ	l dual	Partner	rship: 🗌 Ge	neral 🗌 Limited	
Government:	City 🗌 🤇	County 🗌 Federal 🔲 I	.ocal 🔲 State [	Other			🗌 Sole P	le Proprietorship 🔲 Other:				
12. Number	of Employ	ees				AL ANY		13. Independen	ntly Own	ned and Op	erated?	
0-20	21-100	] 101-250 ] 251-9	500 🔲 501 ar	nd higher			🗆 Yes 🖾 No					
14. Customer	Role (Pro	posed or Actual) – <i>as it</i>	relates to the R	egulated Er	ntity list	ed on t	his form.	Please check one of	the follow	wing		
Owner	al Licensee	Operator     Responsible Par		er & Opera P/BSA App				Other:				
15. Mailing	City of Fa	rmersville										
J	205 S Ma	in Street										
Address:	City	Farmersville		State	тх		ZIP	75442		ZIP + 4		
16. Country N	Aailing Inf	ormation (if outside L	ISA)			17. E	-Mail Ac	idress (if applicable	2)			
						b.whi	ite@farm	ersvilletx.com				

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
( 972 ) 782-6151		( 972 ) 782-6604

## **SECTION III: Regulated Entity Information**

21. General Regulated E	ntity Informa	tion (If 'New Regulate	d Entity" is selec	ted, a new p	ermit applica	tion is also required.)	No. Walte		
New Regulated Entity	Update to	Regulated Entity Name	e 🔲 Update t	o Regulated	Entity Inform	ation			
The Regulated Entity Na as Inc, LP, or LLC).	me submitted	l may be updated, i	n order to mee	t TCEQ Cor	e Data Star	dards (removal of o	rganization	al endings such	
22. Regulated Entity Nan	ne (Enter name	of the site where the	regulated action	is taking pla	ce.)				
City of Farmersville Waste W	/ater Treatmen	t Plant #3							
23. Street Address of the Regulated Entity:									
(No PO Boxes)	City		State		ZIP		ZIP + 4		
24. County	Collin		n to can again to produce and a second						

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

25. Description to Physical Location:	Located app	proximately 0.5 miles	southwest of the	e intersection	of State Highv	way 78 and County Road	550 in Collin	County, Texas
26. Nearest City						State	Near	est ZIP Code
Farmersville						ТХ	75442	2
Latitude/Longitude are re used to supply coordinate					Data Standa	rds. (Geocoding of th	e Physical A	ddress may be
27. Latitude (N) In Decim	al:	33.1040		28.	Longitude (W	V) In Decimal:	-96.4180	
Degrees	Minutes	Se	conds	Degr	ees	Minutes		Seconds
33		6	14.46		96	25		7.74
29. Primary SIC Code (4 digits) 4952	30. Secondary SIC Code     31. Primary NAICS Code     32. Secondary NAICS Code       (4 digits)     (5 or 6 digits)     (5 or 6 digits)						i Code	
<b>33. What is the Primary B</b> Type-A General Law municipa		5 NS	t repeat the SIC c	n NAICS desc	ription.)			
34. Mailing Address:	City of Far	Automa and						
	City	Farmersville	State	тх	ZIP	75442	ZIP + 4	
35. E-Mail Address:	b.wł	nite@farmersvilletx.	com					
36. Telephone Number		3	7. Extension or	Code	38. Fa	x Number (if applicable	e)	
( 972 ) 782-6151					( 972 )	782-6604		

**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	D PWS
Sludge	Storm Water	Title V Air		Used Oil
Voluntary Cleanup	Wastewater	Wastewater Agriculture	Water Rights	Other:
	WQ0014778001			

### **SECTION IV: Preparer Information**

40. Name:	Cody Wootton		41. Title:	Graduate Engineer	
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
( 972 ) 784-7777			( ) -	cwootton@dunaway.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:	Dunaway, LLC	Job Title:	Senior Line of Business Manager		
Name (In Print):	Eddy Daniel, P.E.			Phone:	( 972 ) 782- 4683
Signature:	Colde Dunt P.E.			Date:	5-28-2025

## **APPENDIX C**

PLAIN LANGUAGE SUMMARY

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

#### DOMESTIC WASTEWATER

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

City of Farmersville (CN600423107) proposes to operate City of Farmersville wastewater treatment plant #3 RN105156343. a membrane batch reactor plant. The facility will be located approximately 0.5 mile southwest of the intersection of State Highway 78 and County Road 560, in Farmersville, Collin County, Texas 75442. This application is for a major amendment renewal to discharge at an annual average of 1,500,000 gallons per day of treated domestic wastewater via outfall 001. Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Domestic wastewater will be treated by a membrane batch reactor process plant and the treatment units include a bar screen, fine screens, anaerobic basins, aerobic basins, membrane basins, clarifier basins, sludge digesters, a belt filter press, and disinfection..

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

#### AGUAS RESIDUALES DOMÉSTICAS

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

La Ciudad de Farmersville (CN600423107) propone operar la City of Farmersville wastewater treatment plant #3 RN105156343, una planta de reactor Por lotes de membrana. La facilidad estará localizada aproximadamente 0.5 millas suroeste de le intersección del State Highway 78 y el County Road 550, en Farmersville, Condado Collin, Texas 75442.

Esta aplicación es una renovación de enmienda importante para descargar un promedio anual de 1,500,000 galones por día de aguas residuales domesticas tratadas a través del punto de outfall 001.

Se espera que las descargas de la instalación contengan la demanda bioquímica de oxígeno carbonosos a cinco días (CBOD<sub>5</sub>), solidos totalmente suspendidos (TTS), nitrógeno amoniacal (NH<sub>3</sub>-N), y agua residual domestica *Escherichia coli.* tratada por una planta de reactor por lotes de membrana y las unidades de tratamiento incluirán un filtro de barras, filtro fino, cuencas anaeróbicas, cuencas clarificadoras, digestores de lodos, una prensa de cinto coladora y desinfección.

## APPENDIX D

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

K Located within any of the following geographical locations:

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

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

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

Section 3. Application Information					
Type of Application (check all that apply):					
Air Initial Federal Amendment Standard Permit Title V					
Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire Radioactive Material Licensing Underground Injection Control					
Water Quality					
Texas Pollutant Discharge Elimination System (TPDES)					
Texas Land Application Permit (TLAP)					
State Only Concentrated Animal Feeding Operation (CAFO)					
Water Treatment Plant Residuals Disposal Permit					
Class B Biosolids Land Application Permit					
Domestic Septage Land Application Registration					
Water Rights New Permit					
New Appropriation of Water					
New or existing reservoir					
Amendment to an Existing Water Right					
Add a New Appropriation of Water					
Add a New or Existing Reservoir					
Major Amendment that could affect other water rights or the environment					
Section 4. Plain Language Summary					
Provide a brief description of planned activities.					

Expansion of existing Lakehaven WWTP to serve the Lakehaven community and the City of Farmersville.

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.						
Farmersville						
(City)						
Collin						
(County)						
C48085						
(Census Tract) Please indicate which of these three is the level used for gathering the following information.						
(b) Per capita income for population near the specified location \$37,867						
<ul> <li>(c) Percent of minority population and percent of population by race within the specified location 23% total</li> <li>77% White, 7% Black, 1% American Indian, 0% Asian, 0% Hawaiian/Pacific Islander, 1% Other Race, 1% Two or more races, 14% Hispanic</li> <li>(d) Percent of Linguistically Isolated Households by language within the specified location</li> <li>2%</li> </ul>						
(e) Languages commonly spoken in area by percentage English only: 90.3% Spanish: 8.3% Other Indo-European Languages: 1.4% (f) Community and/or Stakeholder Groups City Council	Ħ					
(g) Historic public interest or involvement City citizens/ETJ property owners						

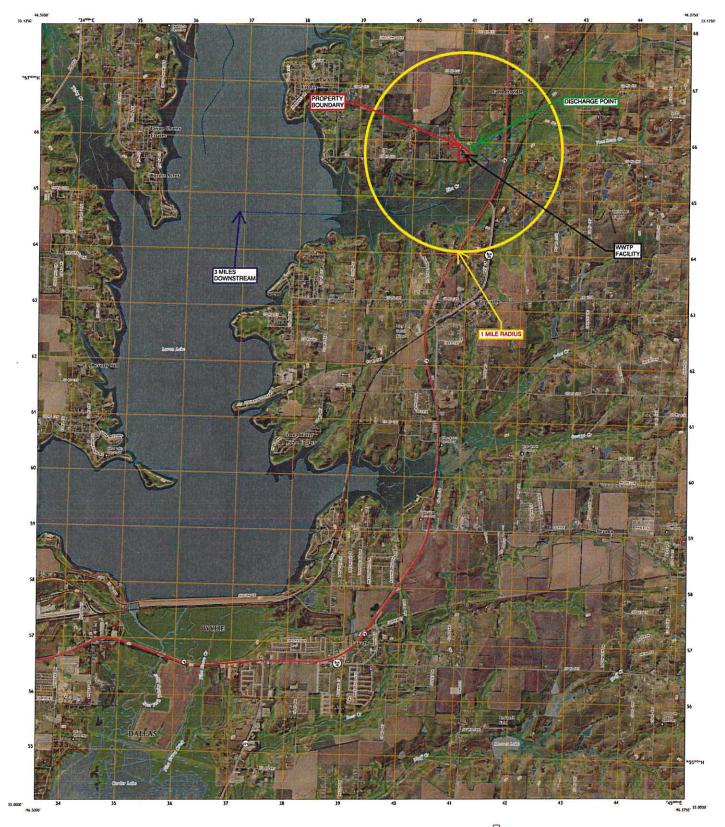
Section 6. Planned Public Outreach Activities
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? Yes X No
<ul> <li>(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?</li> <li>Yes X No</li> <li>If Yes, please describe.</li> </ul>
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?
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) Farmersville City Hall
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 potice will be precided?
What types of notice will be provided?
Publish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)

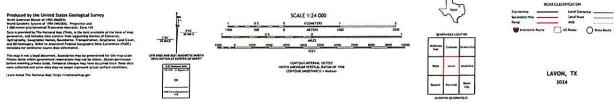
# **APPENDIX E**

# **USGS TOPO MAP**

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

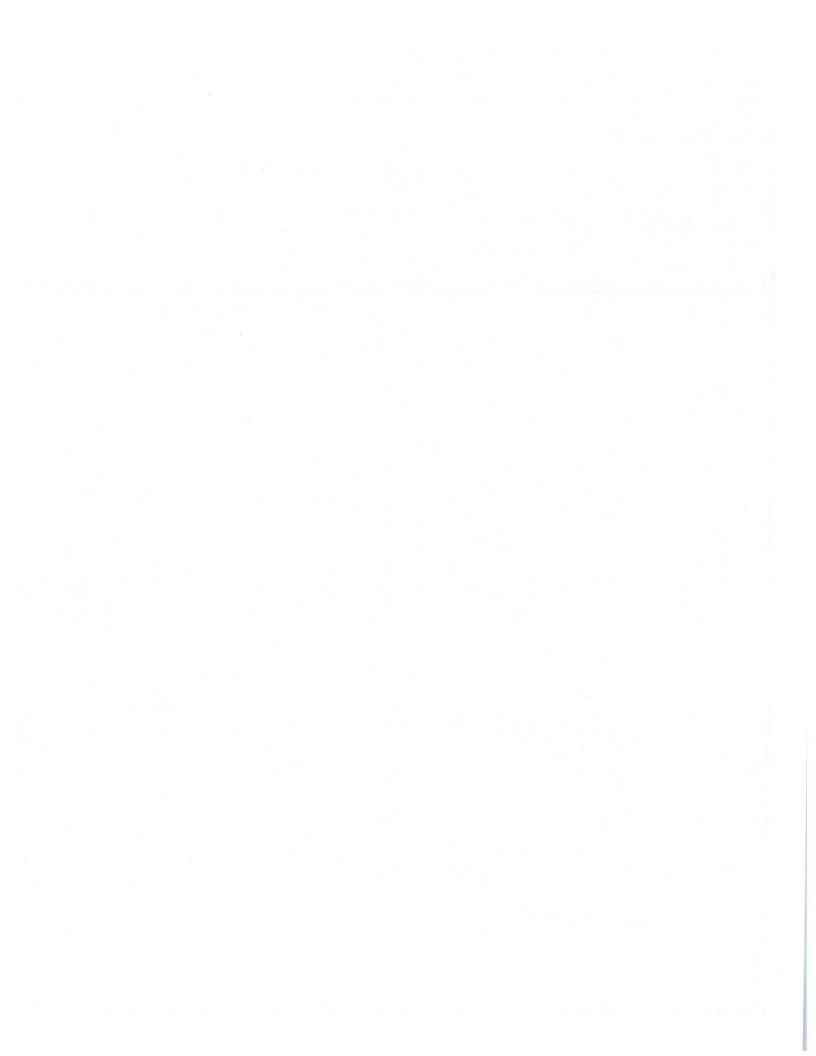
LAVON QUADRANGLE TEXAS - COLLIN COUNTY 7.5-MINUTE TOPO





# **APPENDIX F**

AFFECTED LANDOWNER MAP



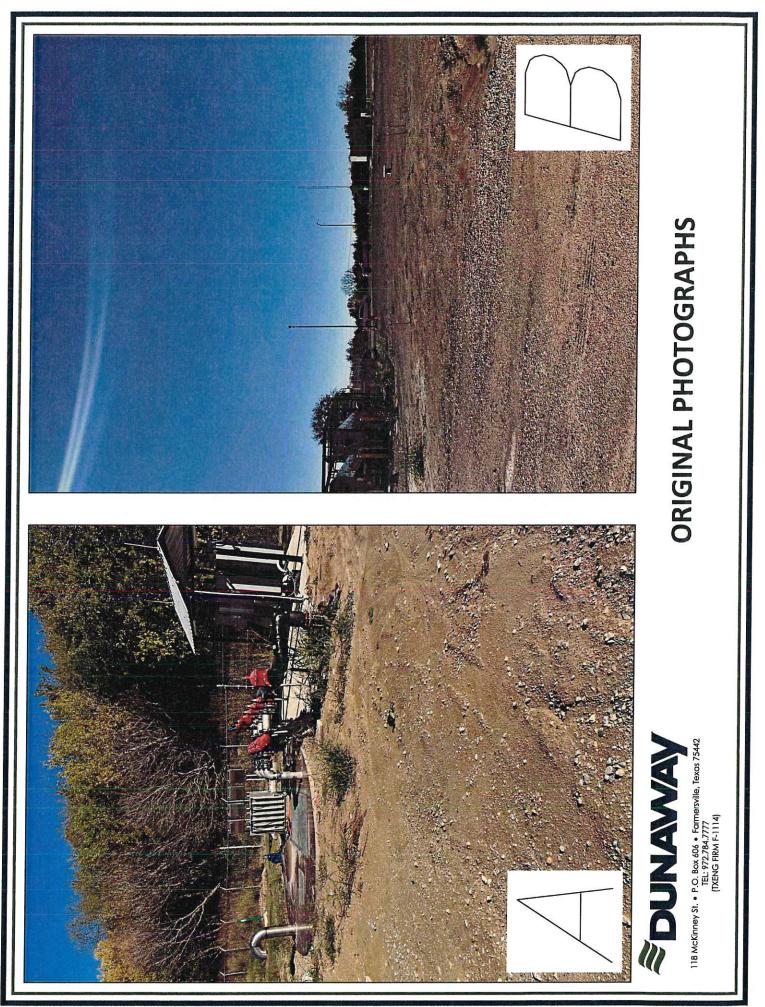
## AMENDMENT FOR WQ0014778001

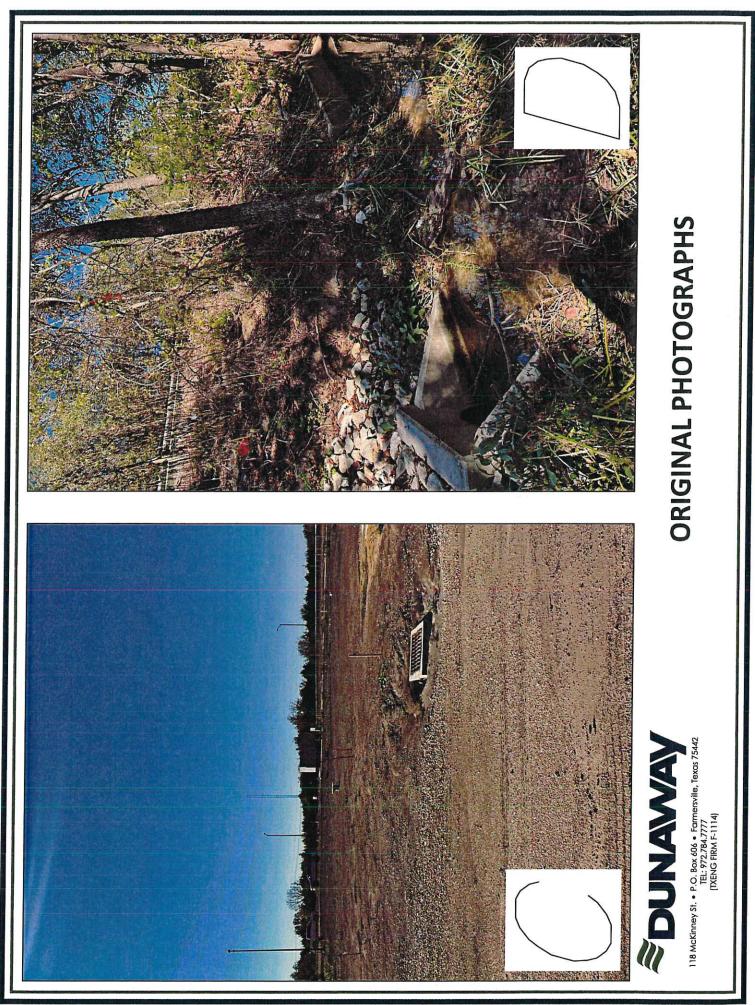
## Landowner Cross-Reference

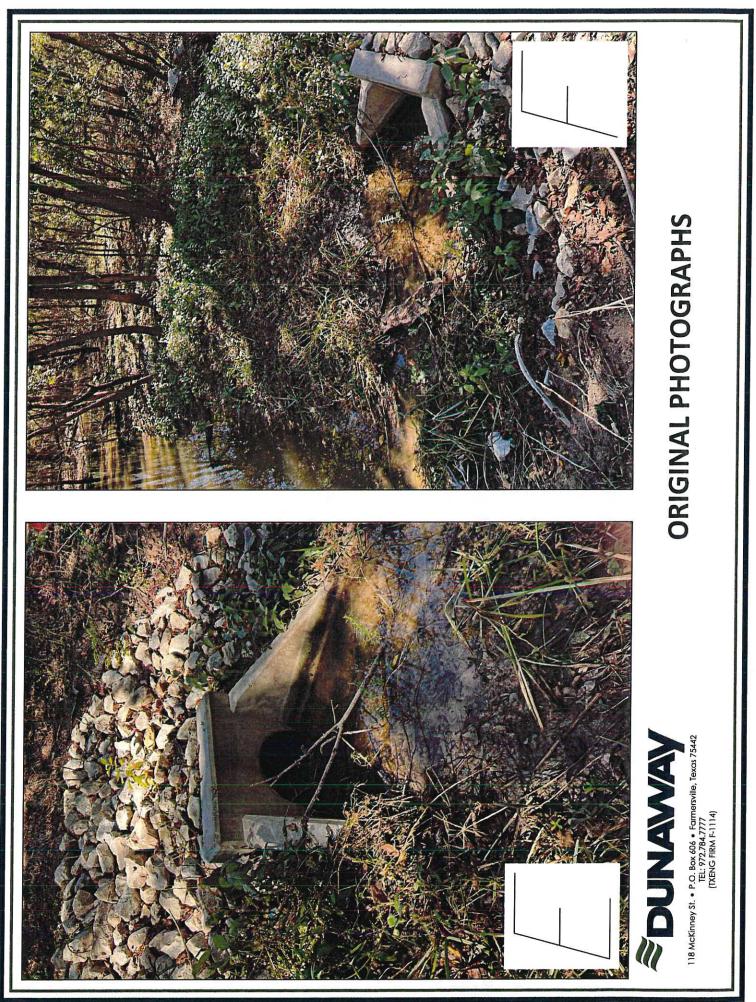
PARCEL NO	OWNER	SITE ADDRESS	MAILING ADDRESS
1	LAKEHAVEN FARMERSVILLE LLC	2999 COUNTY ROAD 551,	4556 KNOLL RIDGE DR, ALEDO,
-		FARMERSVILLE, TX 75442	TX 76008-5241
	MERITAGE HOMES OF TEXAS	2999 COUNTY ROAD 551,	8840 CYPRESS WATERS BLVD
2	LLC	FARMERSVILLE, TX 75442	STE 100, COPPELL, TX 75019-
	LLC	FARMERSVILLE, IX 75442	4615
3	MARTIN JAMES A & SHIRLEY J	N/A	4318 LAKESHORE DR,
3	MARTIN JAMES A & SHIRLET J	INZA	KINGSTON, OK 73439-6012
4	USA	N/A	N/A
5	USA	N/A	N/A
6	USA	N/A	N/A
7	USA	N/A	N/A
8	USA	N/A	N/A
9	USA	N/A	N/A
10	USA	N/A	N/A
11	USA	N/A	N/A

# **APPENDIX G**

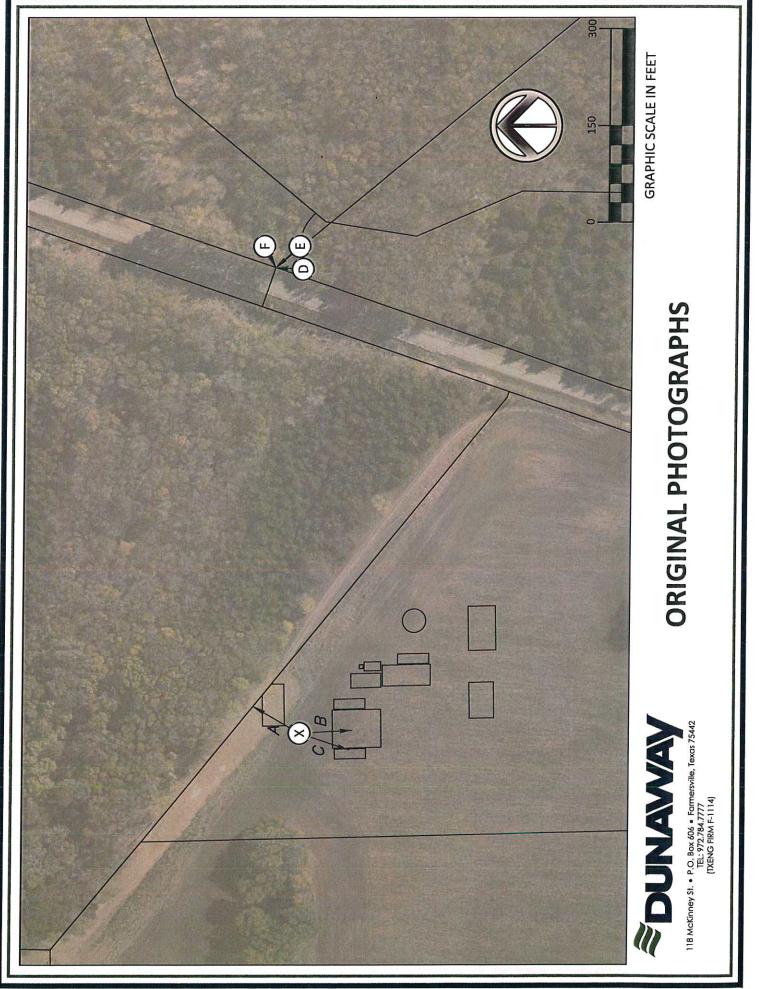
ORIGINAL PHOTOGRAPHS





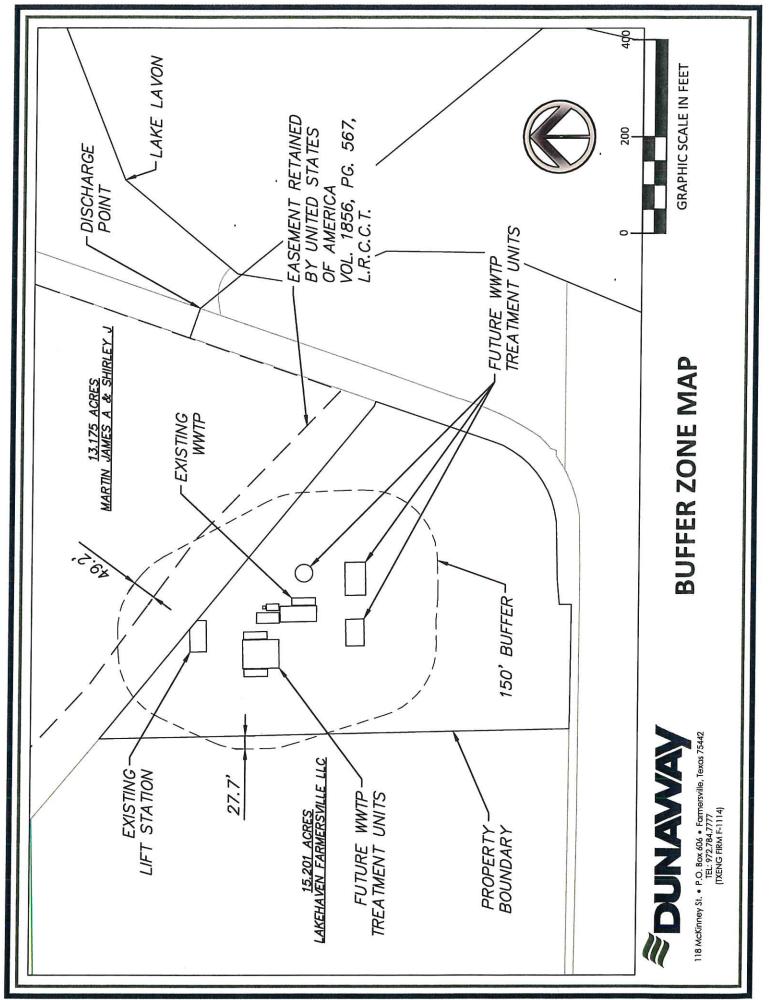


אבטרו ובט מד: לסמץ איססממו טא: אוסתפאן, אסאפשפר דגן, בעצא או: ביגס איז רובאאו ה: איןטטגטטעוןאפאטטעגעאין אבא איט



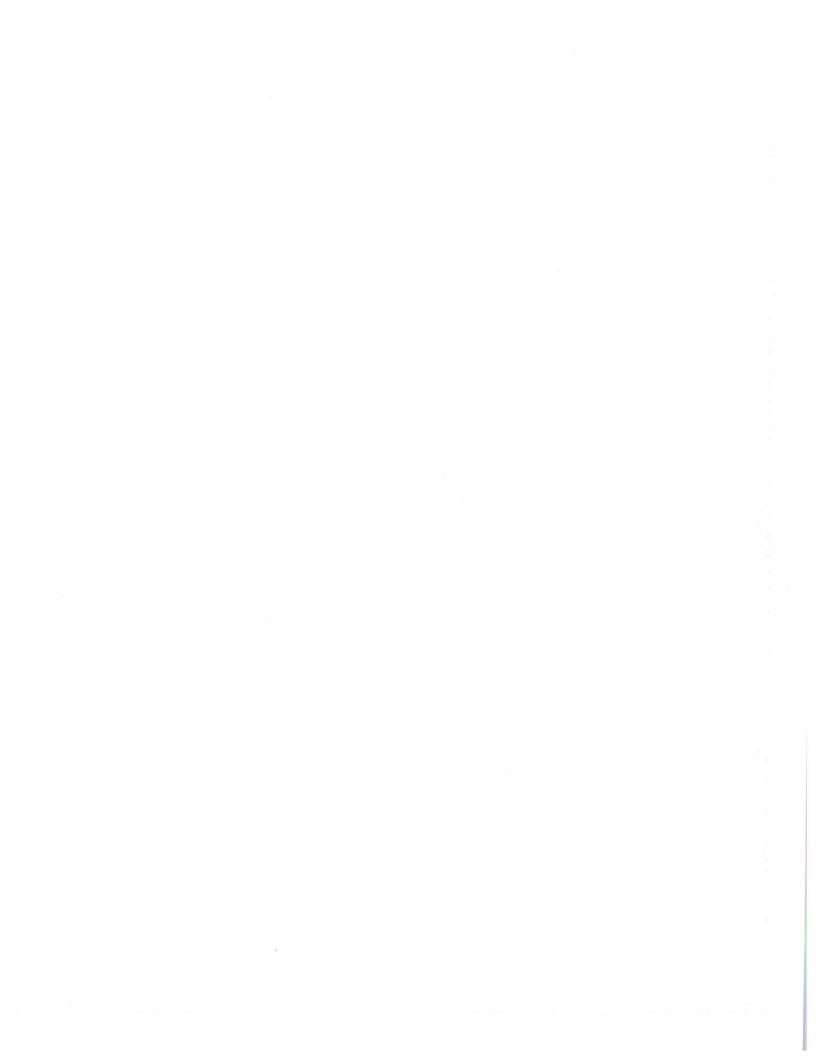
## **APPENDIX H**

BUFFER ZONE MAP



## **APPENDIX I**

PROCESS FLOW DIAGRAM



# **APPENDIX J**

# SITE DRAWING

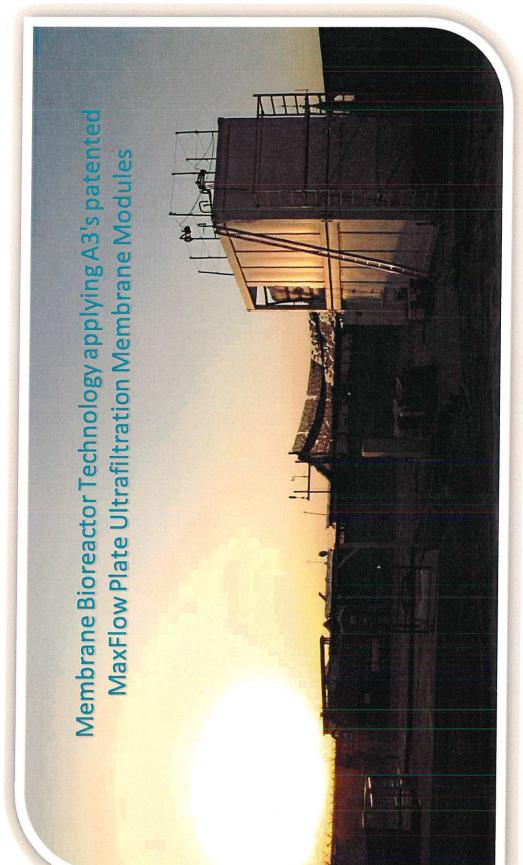
## **APPENDIX K**

~

## DESIGN CALCULATIONS

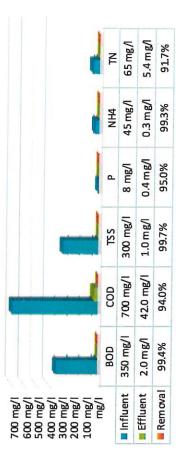


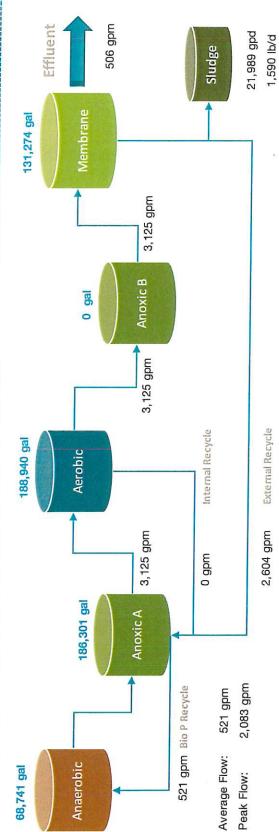
# Budget Proposal # 176



# **Process Summary**

# Influent & Effluent Parameters





LI COSTIC
0.0 psi
0.0 psi
9.0 psi
9.0 psi

DAF

ßÖ

# PROCESS PARAMETERS

Sludge Age	25 d
Total Reactor Volume	575,256 gal
Total SOR	4,425 kgO2/d
MLSS in Anoxic / Aerobic Tank	8,688 mg/l
MLSS in Membrane Tank	10,439 mg/l
HRT	18 h
F/M RATIO (BOD)	0.055
F/M RATIO (COD)	0.109
Total Membrane Surface	204,019 sf

2/4/25

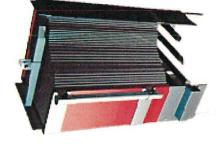
Influent Charateristics	Symbol	Value Units	Influent Charateristics	Symbol	Value	Units
Type of wastewater		municipal	NO3	Nuca	0.0 mo/l	1/5
Temperature	н	15 °C	NH4	Nai	45.0 ma/	
Hd	1	- 0.7	TKN	NTKN	65.0 ma/l	
H <sub>2</sub> CO <sub>3</sub> alkalinity	Alki	300 mg/l as CaCO <sub>3</sub>	ТР	ġ	8.0 ma/	
Site pressure / elevation	p <sub>a,i</sub>	14.5 psi	Dissolved Oxygen	Sozi	0.0 ma/l	
Average daily flow	ā	750,000 gpd	FSA fraction	fartkni	0.7 -	
Peak daily flow	Qi, <sub>max,d</sub>	1,875,000 gpd	Fixed (inorganic) suspended solids	X <sub>FSS.1</sub>	47.5 malSS/I	ISS/I
Hourly peak flow	Qi, max.p	2,083 gpm	TSS concentration	STSS.I	300.0 maTSS/I	TSS/I
Peak factor	Ŧ	4.0 -	Total BOD mass	FS <sub>BOD.</sub>	993.6 kaBOD/d	BOD/d
Average daily flow	ð	2,839 m <sup>3</sup> /d	Total COD mass	FS <sub>cob,i</sub>	1,987.1 kgCOD/d	coD/d
Max. monthly average daily flow	Qi, max,d	7,097 m <sup>3</sup> /d	Total NH4 mass	FSai	127.7 kaNH <sub>4</sub> /d	P/⁼HN
Hourly peak flow	Qi, max,h	473.1 m <sup>3</sup> /h	Total TKN mass	FSTKN	184.5 kaTKN/d	TKN/d
Total BOD	S <sub>BOD,i</sub>	350 mgBOD/I	Total P mass	FSpi	22.7 knP/d	P/d
Total COD	S <sub>cob,i</sub>	700 mgCOD/I				5
COD/BOD ratio	ŀ	2.00 -				
Rapidly biodegradable COD	$S_{{\bf s},i}$	175 mgCOD/I	Effluent Characteristics	Svmbol	Value	Units
Volitale fatty acids (VFA)	Svfa,i	26 mgCOD/I	Waste Sludge	Ĕ	1.590 lb/d	
Fermentable COD	S <sub>F,i</sub>	149 mgCOD/I	Waste Sludge	ď	21,989 apd	
Slowly biodegradable COD	$S_{\rm ss,i}$	378 mgCOD/I	Effluent BOD	S <sub>BOD.e</sub>	< 3 mgBOD/I	BOD/I
Biodegradable COD	S <sub>bia,i</sub>	553 mgCOD/I	Effluent COD	Scop.e	42 mg	mgCOD/I
Soluble inert COD	Ssin,i	42 mgCOD/I	Effluent TSS	S <sub>TSS,e</sub>	1.0 mgTSS/I	TSS/I
Particulate inert COD	SPIN,i	105 mgCOD/I	Effluent P	പ്	0.4 mgP/l	JP/I
			Effluent NH4	N <sub>a.e</sub>	0.3 mg	mgN/I
			Effluent NO <sub>3</sub>	NNO3,e	3.1 mg	mgN/I
			Effluent TN (N <sub>ne</sub> + N <sub>te</sub> )	N <sub>t.e</sub>	5.4 mg	mgN/I

**Biological Process Calculation** 

<b>Bioreactor Characteristics</b>	Symbol	Value	Units	Bid
Temperature	T <sub>bio</sub>	15	ĉ	0
Sludge retention time / Sludge age	SRT	25	q	0
Reactor volume	VP, chosen	575,256 gallons	gallons	2
Reactor volume	VP, chasen	2,177 m <sup>3</sup>	m <sup>3</sup>	0
Reactor volume	V <sub>P,calc</sub>	549,737 gallons	gallons	Z
Average MLSS concentration	X <sub>TSS</sub>	8,750	8,750 mgTSS/I	Т
Food to microorganism ratio	F/MBOD, used	0.055	0.055 kgBOD/kgMLSS	0
Food to microorganism ratio	F/Mcob,used	0.109	0.109 kgCOD/kgMLSS	Z
Membrane tank MLSS concentration	X	10,439	10,439 mgTSS/I	0
Aerobic/Anoxic tank MLSS concentration	X <sub>Bio</sub>	8,688	8,688 mgTSS/I	
Number of anaerobic zones	HAN	-		Т
Number of anoxic zones	#AO		Ľ	
Number of aerobic zones	#AE	1	1	0
External recycle ratio	E	Q	1	S
Internal recycle ratio	ង	-	3	Œ
DO in m recycle	°,	0	0 mgO <sub>2</sub> /l	0
DO in a recycle	Oa	0	0 mgO <sub>2</sub> /l	
Recycle ratio to anaerobic tank (PAO)	S	0		
DO in s recycle	So2,s	0	0 mgO <sub>2</sub> /l	
Nitrate on s recycle	S <sub>NO3,s</sub>	0	0 mg/l	
TKN/COD ratio	fTKNCOD	0.093	0.093 mgTKN/mgCOD	
Carbon source addition (Micro C)	BMicroC	0.0	0.0 lb/d	
Carbon source addition (Micro C)	SMicroC	0.00 gpd	gpd	
Nominal hydraulic retention time	HRT	18.4 h	ء	
Actual hydraulic retention time	HRTa	2.6 h	٩	

<b>3iological Oxygen Demand</b>	Symbol	Value	Units
OD for synth & endo respiration (PAO)	FOPAO	228	228 kgO <sub>2</sub> /d
OD for synth & endo respiration (OHO)	FO <sub>OHO</sub>	923	923 kgO <sub>2</sub> /d
Mass carbonaceous oxygen demand	FOc	1,151	1,151 kgO <sub>2</sub> /d
Carbonaceous oxygen utilization rate	°°	- %23	r
Nitrification oxygen demand	FOn	559	559 kgO <sub>2</sub> /d
Total oxygen demand	FO	1,711	1,711 kgO <sub>2</sub> /d
Oxygen recovered by denitrification	FOd	326	326 kgO <sub>2</sub> /d
Net total oxygen demand (AOR)	FOtd	1,385	1,385 kgO <sub>2</sub> /d
Oxygen saturation @ operating temp.	cs	10.2	10.2 mg/l
Desired oxygen level	č	2.0	2.0 mg/l
Transfer coefficient	۵	0.40 -	,
Diffuser water depth	DWD	17.5 feet	feet
Oxygen transfer efficiency	OTE	2	2 %
Standard total oxygen demand (SOR)	SOR	4,425	4,425 kgO <sub>2</sub> /d
Required air flow	$Q_{air}$	1,115 scfm	scfm
Oxygen requir. per volume & depth	SO	18.3	18.3 gO <sub>2</sub> /(Nm <sup>3*</sup> m <sub>D</sub> )

Membrane Module Design	Symbol	Value	Units
Permeate on cycle	٦°	<del>8</del>	8 minute
Permeate off cycle (relaxation)	Τs	с <mark>о</mark>	2 minute
Effective membrane module surface	A <sub>m,eff</sub>	87.8 m <sup>2</sup>	1 <sup>2</sup>
Effective membrane module surface	A <sub>m,eff</sub>	945 ft <sup>2</sup>	2
Total number of membrane modules	NM	216 -	
Total membrane module surface	Atotal	18,954 m <sup>2</sup>	1 <sup>2</sup>
Total membrane module surface	Atotal	204,019 ft <sup>2</sup>	8
Nominal average daily flux	Q <sub>ave,n</sub>	7.8 lmh	hh
Nominal max. daily flux	Q <sub>ave,n,</sub> max,mo	19.5 lmh	hh
Nominal peak hourly flux	Q <sub>peak,n</sub>	31.2 lmh	hh
Average daily flux (excluding rest cycle)	Q <sub>ave,n</sub>	3.7 gfd	fd
Max. Daily flux (ex. rest cycle)	Q <sub>ave,n,max,mo</sub>	9.2 gfd	Įd
Peak hourly flux (ex. rest cycle)	Q <sub>peak,n</sub>	14.7 gfd	Įq
Total membrane module displacement vol.	Vmodules	2,376 ft <sup>3</sup>	5
Total membrane module displacement vol.	Vmodules	17,772 gallons	allons
Aeration modules	A#	54 -	
Membrane module aeration requirement	$\mathbf{Q}_{am}$	28.5 acfm	cfm
Total membrane modules aeration	Q <sub>am,total</sub>	1,539 acfm	cfm
Membrane diffuser water depth	DWD <sub>m</sub>	16.5 feet	set
Oxygen requirement per volume & depth	SO	14 g	14 gO <sub>2</sub> /(Nm <sub>3</sub> *m <sub>b</sub> )
Standard oxygen rate, membrane aeration	$SOR_m$	9,437 lbO <sub>2</sub> /d	D2/d
Standard oxygen rate, membrane aeration	SOR <sub>m</sub>	4,322 kgO <sub>2</sub> /d	gO₂/d

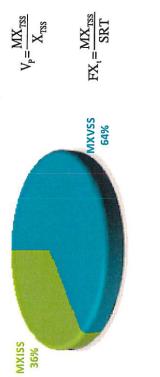


- Patented, innovative A3's MaxFlow<sup>TM</sup> membrane filtration modules manufactured in USA.
- The MaxFlow<sup>TM</sup> module "open channel design" provides optimal biofilm control, minimizes the quantity of chemical cleaning procedures and avoids module clogging.
- The compact module design enables dual-stack and triple-stack installations. It allows for a high membrane packing density resulting in a small footprint and high energy efficiency.
- Most existing conventional treatment plants can be retrofitted with MaxFlow<sup>TM</sup> membranes due to the

Viold confinition Olio					
	Чоно	0.40 mgVSS/mgCOD	COD/BOD ratio	1	2.00 -
Yield coefficient OHO, OBS	Y <sub>OHO</sub> , abs	0.06 mgVSS/mgCOD	Readily biodeg. org. fraction (RBCOD)	f. mn	0.25 alaTCOD
Fermentation rate at 20°C	kr,20	0.06 m3/gVSSd	Non-biodegradable particulate COD	feets con	
Temperature coefficient for $k_{\text{F,T}}$	ΘκF	1.029 -	Non-biodeoradable soluble COD	for and	
Fermentation rate at T	k <sub>e,T</sub>	0.05 m3/gVSSd	SVFA fraction of RBCOD	form and	
Endogenous respiration rate (decay)	роно,20	0.24 gVSS/gVSSd	VSS/TSS of activated sludge	fvra sou	
Endogenous respiration rate T	роно,т	0.21 gVSS/gVSSd	COD/VSS of activated sludoe	Į,	
Yield coefficient FSA	۲A	0.10 maVSS/maFSA	True synthesis fraction	- - - -	
Nitri. pH sensitivity coefficient	Ŗ	1.13 -	Endogenous residue fraction	fur out	- 10.0
Nitri. pH sensitivity coefficient	K <sub>max</sub>	9.50 -	ISS content of OHOs	fice out	0.15
Nitri. pH sensitivity coefficient	۲	0:30 -	Active fraction - VSS	from	26.0
Max. specific growth rate at 20°C	ЧАт	0.45 1/d	Active fraction - TSS	r f	- %20
Max. spec. growth rate - Temp/pH	ИАттрн	0.21 1/d	Influent FSA fraction	fm.	
Half saturation coefficient	Å	0.75 mgFSA/I	Non-bio. soluble oraN fraction (inerts)	fear a	
Half saturation coefficient - Temp	K <sub>nT</sub>	0.42 mgFSA/I	Non-bio. particulate proN fraction	N'ONC.	
Endogenous respiration rate (decay)	bA	0.04 1/d	Permissible under studde mass fraction	c ,	
Temperature coefficient for k <sub>F,T</sub>	θ	1.123 -	Design ungerated sludge mass fraction	шх,	- 60'0
Endogenous respiration rate T	bat	0.022 1/d	Minimum primary apoxic mass fraction	, t	- 20'n
Temperature sensitivity coefficient	θ <sup>nk1</sup>	1.20 -	Primary anoxic mass fraction	. <del>,</del>	
Temperature sensitivity coefficient	θιέ	1.05		1×1	- 32 J
Temperature sensitivity coefficient			OCCURANT ANONIC INASS NACHON	Tx2	0.00 -
	O <sub>nk3</sub>	1.03 -	Anaerobic mass fraction	fan	0.12 -
Denitrification rates at 20°C	k,	0.70 -	Non-bio. particulate orgP fraction	f <sub>P,XE,OHO</sub>	0.05 mgP/mgVSS
Denitrification rates at 20°C	k <sub>2</sub>	0.10 -	Endogenous residue fraction	fxe,pao	0.25 gEVSS/gAVSS
Denitrification rates at 20°C	k <sub>3</sub>	0.08 -	P fraction in active PAO mass	fp.pao	0.38 aP/aAVSS
Denitrification rates	kıт	0.281 -	VSS/TSS ratio for PAO active mass	fvtpan	
Denitrification rates	kar	0.079	Ratio of P release /VFA uptake	fena eri	
Denitrification rates	Кат	0.069 -	Frac. of fixed inorganic s. solids of PAO	feee avo	
Yield coefficient PAO	YPAD	0.45 gAVSS/gCOD	P content of TSS	famo	
Yield coefficient PAO	$Y_{PAO,obs}$	0.22 gAVSS/gCOD	P content of VSS	fp ree i	
Endogenous respiration rate (decay)	bPAO_20	0.04 gEVSS/gCOD	TKN/COD ratio	S S	
Temperature coefficient for $k_{\text{F},\text{T}}$	Ө <sub>b,РАО</sub>	1.029 -	Nitrogen content of active biomass	fairee	0 10 ANIAAVISS
Endogenous respiration rate T	bpao, t	0.03 gEVSS/gVSSd		)) //	

<b>Biological Mass Balance</b>	Symbol	Value	Units	Alkalini
Sludge age	SRT	25 d		Alkalinity
Mixed liquor suspended solids	X <sub>TSS</sub>	8,750 mgTSS/I	I/S	Alkalinity
Readiable biodegradabe COD flux	FS <sub>S,1</sub>	497 kgCOD/d	D/d	Alkalinity
Daily flux of VFAs	FS <sub>VFA,i</sub>	75 kgCOD/d	D/d	Alkalinity
Daily flux of fermentable COD	FS <sub>F,i</sub>	422 kgCOD/d	D/d	Alkalinity
Daily flux of biodegradable COD	FS <sub>bio,i</sub>	1,570 kgCOD/d	D/d	Alkalinity
Daily flux of particulate inert COD	FSPIN	298 kgCOD/d	D/d	Alkalinity
Daily flux of fixed inorganic sus. solids	FS <sub>ISS,i</sub>	135 kglSS/d	p/	Alkalinity
Influent particulate non-bio. COD	FX <sub>vss,i</sub>	201 kgVSS/d	S/d	Density
Mass nitrogen into sludge prod.	<b>FN</b> sludge	56 kgWd	_	Alkalinity
Mass of nitrate generated per day	FN <sub>NO3</sub>	122 kgN/d		Caustic
VFAs stored by PAOs	FSs, PAO	422 kgCOD/d	D/d	Caustic
Remaining biodegradable COD	FCOD <sub>b, OHO</sub>	1,148 kgCOD/d	D/d	
Mass nitrifiers	MXA	196 kgVSS	6	
Active biomass PAO	MXPAO	2,273 KgAVSS	SS	
Endogenous active biomass PAO	MX <sub>E,PAO</sub>	493 kgEVSS	SS	
Bio mass	MX <sub>bio</sub>	4,136 kgVSS	(0	
Active organism mass	MX <sub>OHO</sub>	1,863 kgVSS	0	369
Endogenous residue mass	MX <sub>E,OHO</sub>	1,937 kgVSS	(0	
Non-biodegradable particulate mass	MXIV	5,035 kgVSS	0	
Volatile suspended solids mass	MX <sub>VSS</sub>	11,601 kgVSS	(0	
Inorganic suspended solid mass	MX <sub>ISS</sub>	6,606 kglSS		
Total suspended solids mass	MX <sub>TSS</sub>	18,207 kgTSS	(0	
Mass/Sludge TSS wasted	Ę	728 KgTSS/d	S/d	
Mass/Sludge VSS wasted	FX <sub>V</sub>	464 kgVSS/d	p/s	
Effluent COD	Scop.e	42 mgCOD/I	1/0(	
COD mass out (effluent and waste)	FS <sub>COD,e</sub>	119 kgCOD/d	D/d	
Mass/Sludge COD wasted	FX <sub>cob,s</sub>	687 kgCOD/d	P/d	

Alkalinity	Symbol	Value	Units
Alkalinity Nitritication as CaCO3 (consumed)	Alk <sub>Nitri</sub>	308	308 mg/l as CaCO <sub>3</sub>
Alkalinity Dentrification as CaCO3 (recovered)	Alk <sub>Denitri</sub>	166	166 mg/l as CaCO <sub>3</sub>
Alkalinity ef	Alke	100	100 mg/l as CaCO <sub>3</sub>
Alkalinity <sub>ief</sub>	Alki	300	300 mg/l as CaCO <sub>3</sub>
Alkalinity Aum (consumed)	Alk <sub>Alum</sub>	0.0	0.0 mg/l as CaCO <sub>3</sub>
Alkalinity <sub>Total</sub>	Alktotal	158	158 mg/l as CaCO <sub>3</sub>
Alkalinity Added	Alkadded	-58	-58 mg/l as CaCO <sub>3</sub>
Alkalinity <sub>Added</sub>	XAIkadded	0	0 lb/d
Density caustic solution (50%)	ſ	12.76	12.76 lb/gal
Alkalinity recovered	Alkrecovered	0.4	0.4 lbCaCO <sub>3</sub> /lb
Caustic needed	1	0.0	P/qI 0.0
Caustic needed	T	0.0	0.0 gpd

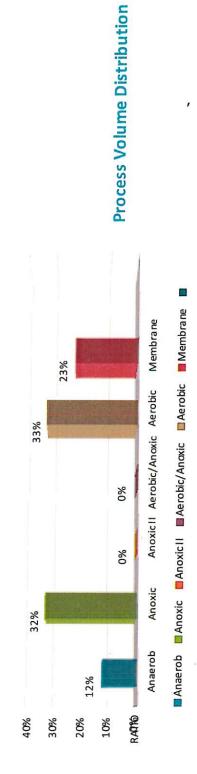


MX<sub>TSS</sub>=MX<sub>ISS</sub>+MX<sub>vSS</sub>

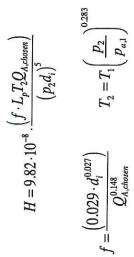
N Removal s	Symbol Value	Units	P Removal	Symbol	Value Units
Factor of safety	ũ	1.2 -	COD lost in anaerobic reatcor	SEAND	000 8
Nitrogen requirements	FN <sub>syrth</sub>	46 kgN/d	COD lost in anaerobic reatcor	SE AND	
Nitrogen requirements	TKN <sub>i, synth</sub>	16.35 gN/m3	Fermentable COD for AN reactor	SE1 com	
Influent non-bio. soluble organic N	N <sub>nbics, i</sub>	1.95 mgN/I	DO in influent	Sn <sup>2</sup> i	
Influent non-bio. particulate org. N	N <sub>nbiop,i</sub>	8.5 mgN/I	PO4 release AN reactor	SP04.rel	
Influent biodegradable organic N	N <sub>bia,i</sub>	18.1 mgN/I	P removal by PAOs	ΔΡραο	
Effluent non-bio. soluble organic N	N <sub>nbics,e</sub>	1.95 mgN/I	P removal by OHOs	ΔР <sub>оно</sub>	
NH4 concentration avail. for nitri.	Nan	43.4 mgN/I	P removal by endgeneous biomass	$\Delta P_{XE}$	
Effluent ammonia	N <sub>a,e</sub>	0.3 mgN/I	P removal by influent inert mass	$\Delta P_{XI}$	3.5 gP/m <sup>3</sup>
Effluent TKN	Итки, е	2.3 mgN/l	P into sludge production	പ്	22.7 gP/m <sup>3</sup>
N concentration into sludge prod.	Ns	19.6 mgN/I	Potential P removal by system	ΔP <sub>SYS</sub> , POT	40.9 gP/m <sup>3</sup>
Nitrification capacity	Nc	43.1 mgN/l	Actual P removal by system	ΔPsys,act	8.0 gP/m <sup>3</sup>
	D <sub>p1RBCOD</sub>	24.7 mgNO <sub>3</sub> -N/I	Effluent particulate P from TSS	X <sub>P,e</sub>	0.1 gP/m <sup>3</sup>
	D <sub>p1SBCOD</sub>	16.8 mgNO <sub>3</sub> -N/I	Influent total P	Ŀ,	8.0 gP/m <sup>3</sup>
Denitrification potential RBCOD	D <sub>р</sub> зявсор	0.0 mgNO <sub>3</sub> -N/I	Effluent total P	Р.	0.1 aP/m <sup>3</sup>
Q	D <sub>p</sub> 38BCOD	0.0 mgNO <sub>3</sub> -N/I	P precipitated	Pprec	0.0 mgP/I
Minimum sludge age for nitri.	SRT <sub>m</sub>	8.3 d	Precipitation chemical	BAlum	0.0 lb/d
Denitrification potential primary tank	D <sub>p1</sub>	41.6 mgN/I	Precipitation chemical	Solution	0.0 gal/d
Denitrification potential secondary tank	D <sub>p3</sub>	0.0 mgN/I	Density Alum	ZAL <sup>3+</sup>	0.100 Ib <sub>AL</sub> /Ib <sub>prec</sub>
Denitri. potential recycle rate (fxm = fxdm)	D <sub>p</sub> .	37.0 mgN/I	Density Iron	Z <sub>Æ<sup>3+</sup></sub>	0.077 Ib <sub>E</sub> /Ib <sub>prec</sub>
Effluent nitrate	N <sub>NO3,e</sub>	3.1 mgN/I	Alum efficiency	1	40.0 g/kg
Effluent nitrate @ f <sub>xdm</sub> & recycle rate	NNO3,e	6.2 mgN/I	Chemical precipitation sludge	·	0.0 b/di

Tank Dimensions	Trains	Length	Width	Dia.	Degree	Height	Liquid level Volume	Volume per train	Volume Total	Volume Total
Anaerobic	F	15.00 ft	33.00 ft	.00 ft	0.0	21.00 ft	18.57 ft	68.741 nal	68 741 nal	260.2 m3
Anoxic I	-	75.00 ft	18.00 ft	.00 ft	0.0	21.00 ft	18.45 ft	186.301 nal	186 301 nal	705 1 m3
Aerobic	F	42.00 ft	33.00 ft	.00 ft	0.0	21.00 ft	18.22 ft	188.940 nal	188 940 nal	715.1 m3
Anoxic II	0	.00 ft	.00 ft	.00 ft	0.0	.00 ft	.00 ft	200		6
Anoxic Buffer	0	.00 ft	.00 ft	.00 ft	0.0	.00 ft	-00 ft	5 R	20 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Membrane	Ŧ	75.00 ft	13.00 ft	.00 ft	0.0	21.00 ft	18.00 ft	зч 131.274 даl	уч 131 274 даl	5 m 0 907
Sludge	0	.00 ft	.00 ft	.00 ft	0.0	.00 ft	.00 ft	Cal an		
EQ	0	.00 ft	.00 ft	.00 ft	0.0	.00 ft	.00 ft	oal		
								 )	j D	
Tank Design	Symbol	Value	Units							
Total process tank volume	575,256 gallons	galions		Weir level	2.7	2.7 inches				
Total process tank volume <sub>cac</sub>	549,737 gallons	gallons		Weir length	20.00 ft	ft				
Unaerated tank percentage	37 %	%		Velocity	1.55 fps	fps				
Total tank volume	575,256 gallons	gallons		Vertical tank	0					
Membrane modules volume	17,772 gallons	gallons		Horz. Tank	0					
F/Mused, BOD	0.055	0.055 kgBOD/kgMLSS	S	Diameter	<mark>0</mark> ft	ft				
F/Mused, COD	0.109	0.109 kgCOD/kgMLSS	S							

**Mechanical Process Calculation** 



Air Flow Decien	Sumhol	Membrane	Aerobic	cluden	E	
	ionui lo	per train	per train	agnuc	ž	IUN
Minimum air flow	Q <sub>A,re</sub>	1,539	1,115	0	0	acfm / scfm
Chosen air flow - actual	Q <sub>A,</sub> chosen	1,540	1,080	0	0	acfm
Chosen air flow - inlet	$Q_{A,chosen}$	2,836	1,941	0	0	u3/h
Chosen air flow - inlet	$\mathbf{Q}_{\mathbf{A}, \text{chosen}}$	1,669	1,143	0	0	scfm
Chosen air flow - piping	$\mathrm{Q}_{\mathrm{A},\mathrm{chosen}}$	1,030	705	0	0	acfm
Pipe pressure	ď	9.0	9.0	0.0	0.0	psi
Pipe losses	т	0.12	0.06	0.00	0.00	psi
Equivalent length in pipe looses	٦	400	400	400	400	feet
Pipe diameter	ס	8.0	8.0	3.0	2.0	inches
Internal pipe diameter	ġ	8.33	8.33	3.26	2.16	inches
Standard temperature	т,	293	293	293	293	×
Pipe temperature	$T_2$	336	336	293	293	×
Constant	Ŧ	0.02	0.02	0.06	0.09	ţ
Air velocity	>	45.4	31.1	0.0	0'0	fps
Atmospheric pressure	p <sub>a,1</sub>	14.5	14.5	14.5	14.5	psi
Absolute pressure	p <sub>2</sub>	23.5	23.5	14.5	14.5	psi
Pressure due to tank liquid level	ромо, т	7.2	7.7	0.0	0.0	psi
Pressure due to aeration device	powo	0.8	0.7	0.5	0.5	psi
Pressure due to pipe losses & elev.	powo's	0.5	0.5	0.4	0.4	psi
Total pipe losses	đ	8.5	8.9	0.9	0.9	psi
Total pipe losses	ď	586.6	612.2	62.1	62.1	mbar





# **APPENDIX L**

## WIND ROSE

## **APPENDIX M**

SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN



## SOLIDS MANAGEMENT PLAN CITY OF FARMERSVILLE FARMERSVILLE WWTP #3

Influent Design Flow: 750,000 GPD Influent BOD Concentration: 350 mg/L MBR Basin MLVSS: 10,439 mg/L

See Attachment I - Process Flow Diagram and Attachment K - Design Calculations. Attachment K shows calculations for one (1) 750,000 gpd (0.750 MGD) treatment train. In the final phase, there will be one (1) 500,000 gpd (0.50 MGD), one (1) 250,000 gpd (0.25 MGD), and one (1) 750,000 gpd (0.75 MGD) treatment trains operating at full capacity for a total of 1.50 MGD in the final phase.

Solids Generated	100%	75%	50%	25%
Lbs./d Influent BOD₅	2,190.7	1,643.0	1,095.3	547.7
Lbs./d Dry Sludge Produced	1,590	1,192.5	795	397.5

### Table 1 – Sludge Production for 0.75 MGD Design Flow

Sludge will be sent from the Recycled Activated Sludge flow stream to the Sludge Screw Press. Calculations are based on 21,989 gpd of waste sludge, which equates to 1,590 lb/d (Table 1). The sludge will be pressed in the Sludge Screw Press to remove liquids and produce a dry sludge cake. All liquid will be decanted from the Screw Press and returned to the headworks for treatment. No wet solids will be produced through the treatment process. Dry sludge will be removed from the screw press and deposited into a 15 cubic yard (CY) roll-off container for disposal on a regular basis (Table 2).

	Tuble 2 - Slut	iye kemovu	Scheuule		
Removal Schedule	100%	75%	50%	25%	Unit
Dry Waste Sludge	1,590.0	1,192.5	795	397.5	lb/d
Wet Waste Sludge	21,989	16,492	10,995	5,497	gpd
Wet Sludge	2,940	2,205	1,470	735	CF/d
Wet Sludge	109	82	54	27	CY/d
<b>Reduction Factor</b>	18.0	(provided	by MBR WW	TP manufac	turer)
Dry Sludge	6	4.5	3	1.5	CY/d
Dumpster Volume	15	15	15	15	CY
Recurring Sludge Removal	2	3	5	10	days

### Table 2 – Sludge Removal Schedule

The Sludge Age (Solids Retention Time) for a Total Reactor Volume of approximately 575,256 gallons is 25 days, with an annual average sludge production of 580,350 lbs. dry sludge produced at 100% capacity. The dewatered sludge will be transported by a registered hauler, North Texas Municipal Water District (#22488), to the North Texas Municipal Water District Waste Water Treatment Facility (WQ0010363001) in Collin County, Texas.

## **Candice Calhoun**

From:	Cody Wootton <cwootton@dunaway.com></cwootton@dunaway.com>
Sent:	Wednesday, June 18, 2025 11:57 AM
То:	Candice Calhoun
Cc:	Jacob Dupuis
Subject:	Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency
Attachments:	E - USGS Topo.zip

One more try hopefully, this ZIP-folder contains one PDF but hopefully it compressed enough to send.

Thank you, **Cody Wootton, EIT** Graduate Engineer I **T** 972.784.7777

From: Cody Wootton <cwootton@dunaway.com>
Sent: Wednesday, June 18, 2025 11:53 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jacob Dupuis <JDupuis@dunaway.com>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

The USGS topo map is attached here. Hopefully they are all accessible now!

Thank you for your help, Cody Wootton, EIT Graduate Engineer I T 972.784.7777

From: Cody Wootton <cwootton@dunaway.com>
Sent: Wednesday, June 18, 2025 11:52 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jacob Dupuis <JDupuis@dunaway.com>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Apologies for the issues with the files! Attached to this message are all of the necessary files for our complete response <u>except</u> the USGS topo map. I will send another message shortly containing that.

Thank you, **Cody Wootton, EIT** Graduate Engineer I **T** 972.784.7777

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Wednesday, June 18, 2025 11:48 AM
To: Cody Wootton <cwootton@dunaway.com>

### Cc: Jacob Dupuis <JDupuis@dunaway.com>

Subject: RE: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Mr. Wootton,

Yes, I would try to send it separately. If that still does not work, please let me know and I will see what I can do to help. 😳

Regards,



Candice Courville License & Permit Specialist ARP Team | Water Quality Division Texas Commission on Environmental Quality 512-239-4312 candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at <a href="http://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>

From: Cody Wootton <cwootton@dunaway.com>
Sent: Wednesday, June 18, 2025 11:47 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jacob Dupuis <JDupuis@dunaway.com>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Hello,

I placed all of the necessary files into a compressed ZIP-folder, but the attachment was still too large to send due to the size of the USGS Topo map file. I've attached the error email I received. The OneDrive link contained the ZIP-folder I was attempting to attach. Should I try to send the USGS map and the rest of the items separately?

## Cody Wootton, EIT

Graduate Engineer I **T** 972.784.7777

From: Candice Calhoun <<u>Candice.Calhoun@tceq.texas.gov</u>>
Sent: Wednesday, June 18, 2025 11:36 AM
To: Cody Wootton <<u>cwootton@dunaway.com</u>>
Cc: Jacob Dupuis <<u>JDupuis@dunaway.com</u>>
Subject: RE: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Good morning, Mr. Wootton,

Unfortunately, I cannot accept a response via one-drive. I will need the response in a PDF file. The Labels will need to be provided in a Microsoft Word document.

Regards,



Candice Courville License & Permit Specialist ARP Team | Water Quality Division Texas Commission on Environmental Quality 512-239-4312 candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at <a href="http://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>

From: Cody Wootton <<u>cwootton@dunaway.com</u>>
Sent: Wednesday, June 18, 2025 11:23 AM
To: Candice Calhoun <<u>Candice.Calhoun@tceq.texas.gov</u>>
Cc: Jacob Dupuis <<u>JDupuis@dunaway.com</u>>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Good morning,

Attached is the complete response to the NOD dated June 16, 2025.

WQ0014778001 NOD Response 6-18-2025.zip

Please let me know if there is any issues accessing the files or any further questions.

Thank you, **Cody Wootton, EIT** Graduate Engineer I **T** 972.784.7777

From: Candice Calhoun <<u>Candice.Calhoun@tceq.texas.gov</u>>
Sent: Monday, June 16, 2025 9:59 AM
To: Jacob Dupuis <<u>JDupuis@dunaway.com</u>>
Cc: Cody Wootton <<u>cwootton@dunaway.com</u>>
Subject: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Good morning, Mr. Dupuis,

The attached Notice of Deficiency (NOD) letter dated <u>June 16, 2025</u>, requests additional information needed to declare the application administratively complete. Please send complete response no later than <u>June 30, 2025</u>.

Please let me know if you have any questions.

Regards,



Candice Courville License & Permit Specialist ARP Team | Water Quality Division Texas Commission on Environmental Quality 512-239-4312 candice.calhoun@tceq.texas.gov

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Dunaway No. 8840.001

June 18, 2025

Candice Calhoun Texas Commission on Environmental Quality Water Quality Division Applications Review and Processing Team (MC148) 512-239-4312

Re: Application to Amend Permit No.: WQ0014778001 (EPA I.D. No. TX0129402) Applicant Name: City of Farmersville (CN600423107) Site Name: City of Farmersville WWTP No. 3 (RN105156343) Type of Application: Major amendment with renewal

Dear Ms. Calhoun,

This letter is to address the items listed in the Notice of Deficiency sent via email on June 16<sup>th</sup>, 2025. The complete response is as follows:

**Item 1:** "Thank you for submitting the Domestic Wastewater Permit Application. However, the application has been submitted on an outdated form. According to TCEQ policy, outdated versions of the application forms cannot be used. Please resubmit all pages..." **Response 1:** Please see attached PDF titled "10053 Updated" containing all necessary information put into the newest TCEQ 10053 form, retrieved from TCEQ's website on 6/16/2025.

**Item 2:** "Section 8, item E.5 of the administrative report: the alternate language was not provided for this item. Please provide a revised section of the application to provide the requested information."

**<u>Response 2</u>**: Please see attached updated TCEQ 10053 form reflecting the addition of the requested information. The field has been updated to reflect Spanish as the alternative language.

**Item 3:** "Public Involvement Plan (PIP): section 2 of the SPIF did not include a brief explanation as to why the public involvement plan is not applicable to this application. Please provide an updated PIP to include this information. "

**<u>Response 3:</u>** Please see attached updated Public Involvement Plan with the requested information included.

**<u>Item 4:</u>** "USGS Topographic Map: the USGS map was inadvertently left out of the electronic application. Please provide the USGS map."

**<u>Response 4</u>**: Please see attached PDF titled "E – USGS Topo" for the requested information.

**Item 5:** "Affected Landowner Information: the landowner map, list and labels were not provided in the electronic application. Please provide the requested information and ensure the labels are provided as a Microsoft Word document."

<u>**Response 5:**</u> Please see attached PDF titled "F – Affected Landowner Map" and Word document titled "Mailing Labels – Avery5160" for the requested information.

**Item 6:** "The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete."

**<u>Response 6</u>**: We notice a typo on the fourth line ("descharge" should be "discharge"). Otherwise, the information seems correct as applicable.

Please let us know if there is anything else needed to ensure the renewal application is administratively complete.

Sincerely,

#### DUNAWAY ASSOCIATES, LLC a Texas limited liability company

Cody Wootton, EIT Graduate Engineer

dunawayassociates.com

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

### Complete and submit this checklist with the application.

APPLICANT NAME: City of Farmersville

PERMIT NUMBER (If new, leave blank): WQ0014778001

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

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

### 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: <u>041986</u>	
	Check/Money Order Amount: <u>\$2</u>	.,050.00
	Name Printed on Check: <u>City of F</u>	armersville
EPAY	Voucher Number: Click to enter	text.
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.
  - $\boxtimes$  Active  $\square$  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 <u>with</u> Renewal D Minor Amendment <u>with</u> Renewal
  - □ Major Amendment <u>without</u> Renewal
- □ Minor Amendment <u>without</u> Renewal
  - Renewal without changesMinor Modification of permit
- e. For amendments or modifications, describe the proposed changes: <u>Expansion of facilities from</u> <u>0.5 to 1.5 MGD to account for population growth in area served.</u>

### f. For existing permits:

Permit Number: WQ00 <u>14778001</u> EPA I.D. (TPDES only): TX <u>0129402</u> Expiration Date: <u>10/23/2028</u>

### 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?

### City of Farmersville

(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 <u>http://www15.tceq.texas.gov/crpub/</u>

### CN: <u>600423107</u>

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: <u>Mr</u>	Last Name, First Name: <u>Daniel, Eddy</u>
Title: <u>City Engineer</u>	Credential: <u>P.E.</u>

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

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

### Click to enter text.

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the

#### legal documents forming the entity.)

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

CN: Click to enter text.

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

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

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

### 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. <u>Appendix B</u>

### 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: <u>Mr.</u>	Last Name, First Name: <u>Wootton, Cody</u>
	Title: <u>Graduate Engineer</u>	Credential: <u>E.I.T.</u>
	Organization Name: <u>Dunaway</u>	
	Mailing Address: <u>118 McKinney Str</u>	reet City, State, Zip Code: <u>Farmersville, TX 75442</u>
	Phone No.: <u>972-784-7777</u>	E-mail Address: <u>cwootton@dunaway.com</u>
	Check one or both: $\square$ Adm	ninistrative Contact 🛛 Technical Contact
B.	Prefix: <u>Mr.</u>	Last Name, First Name: <u>Dupuis, Jacob</u>
	Title: <u>Senior Discipline Lead</u>	Credential: <u>P.E.</u>
	Organization Name: <u>Dunaway</u>	
	Mailing Address: <u>118 McKinney Str</u>	reet City, State, Zip Code: <u>Farmersville, TX 75442</u>
	Phone No.: <u>972-784-7777</u>	E-mail Address: jdupuis@dunaway.com
	Check one or both: $\square$ Adm	ninistrative 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: <u>Mr.</u>	Last Name, First Name: <u>White, Benjamin L</u>
	Title: <u>City Manager</u>	Credential: <u>P.E., CPM</u>
	Organization Name: <u>City of Farmer</u>	csville
	Mailing Address: 205 S Main Street	t City, State, Zip Code: <u>Farmersville, TX 75442</u>

	Phone No.: <u>972-782-6151</u>	E-mail Address: <u>b.white@farmersvilletx.com</u>
B.	Prefix: <u>Mr.</u>	Last Name, First Name: <u>Daniel, Eddy</u>
	Title: <u>City Engineer</u>	Credential: <u>P.E.</u>
	Organization Name: <u>Dunaway</u>	
	Mailing Address: <u>PO Box 606</u>	City, State, Zip Code: <u>Farmersville, TX 7544</u>
	Phone No.: <u>972-782-4683</u>	E-mail Address: <u>edaniel@dunaway.com</u>

### 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: <u>Mr.</u>	Last Name, First Name: <u>White, Benjamin L</u>
Title: <u>City Manager</u>	Credential: <u>P.E., CPM</u>
Organization Name: <u>City of Farmer</u>	sville
Mailing Address: 205 S Main Street	City, State, Zip Code: <u>Farmersville, TX 75442</u>
Phone No.: <u>972-782-6151</u>	E-mail Address: <u>b.white@farmersvilletx.com</u>

### 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: <u>Mr.</u>	Last Name, First Name: <u>White, Benjamin L</u>
Title: <u>City Manager</u>	Credential: <u>P.E., CPM</u>
Organization Name: City of Farmer	rsville
Mailing Address: 205 S Main Street	City, State, Zip Code: <u>Farmersville, TX 75442</u>
Phone No.: <u>972-782-6151</u>	E-mail Address: <u>b.white@farmersvilletx.com</u>

### Section 8. Public Notice Information (Instructions Page 27)

### A. Individual Publishing the Notices

Prefix: <u>Mr.</u>	Last Name, First Name: <u>Daniel, Eddy</u>
Title: <u>City Engineer</u>	Credential: <u>P.E.</u>
Organization Name: <u>Dunaway</u>	
Mailing Address: <u>PO Box 606</u>	City, State, Zip Code: <u>Farmersville, TX 75442</u>
Phone No.: <u>972-782-4683</u>	E-mail Address: <u>edaniel@dunaway.com</u>

# 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: <u>Mr.</u>	Last Name, First Name: <u>Daniel, Eddy</u>
Title: <u>City Engineer</u>	Credential: <u>P.E.</u>
Organization Name: <u>Dunaway</u>	
Mailing Address: <u>PO Box 606</u>	City, State, Zip Code: <u>Farmersville, TX 75442</u>
Phone No.: <u>972-782-4683</u>	E-mail Address: <u>edaniel@dunaway.com</u>

### **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: City Hall

Location within the building: Public Foyer

Physical Address of Building: 205 S Main Street

City: <u>Farmersville</u> County: <u>Collin</u>

Contact (Last Name, First Name): White, Benjamin L

Phone No.: <u>972-782-6151</u> 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? <u>Spanish</u>

### 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: <u>Appendix C</u>

### 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: <u>Appendix D</u>

# 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** <u>105156343</u>

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

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

City of Farmersville Wastewater Treatment Plant #3

**C.** Owner of treatment facility: <u>City of Farmersville</u>

Ownership of Facility:  $\square$  Public  $\square$  Private

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

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

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

Organization Name: City of Farmersville

Mailing Address: <u>205 S Main Street</u> City, S	State, Zip Code: Farmersville, TX 75442
---	---

Phone No.: <u>972-782-6151</u> E-mail Address: <u>b.white@farmersvilletx.com</u>

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.

Both

Federal

### E. Owner of effluent disposal site:

Prefix: <u>N/A</u>	Last Name, First Name: Click to enter text.		
Title: Click to enter text.	Credential: Click to enter text.		
Organization Name: Click to en	ter 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.

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

Prefix: <u>N/A</u>	Last Name, First Name: Click to enter text.
--------------------	---

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

### Section 10. TPDES Discharge Information (Instructions Page 31)

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

🖾 Yes 🗆 No

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

Click to enter text.

- **B.** Are the point(s) of discharge and the discharge route(s) in the existing permit correct?
  - 🖾 Yes 🗆 No

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

Click to enter text.

City nearest the outfall(s): <u>City of Farmersville</u>

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

- **C.** Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?
  - 🗆 Yes 🖾 No

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

□ Authorization granted □ Authorization pending

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

Attachment: Click to enter text.

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

### Section 11. TLAP Disposal Information (Instructions Page 32)

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

🗆 Yes 🗆 No

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

Click to enter text.

- **B.** City nearest the disposal site: Click to enter text.
- C. County in which the disposal site is located: Click to enter text.
- **D.** For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

Click to enter text.

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

### Section 12. Miscellaneous Information (Instructions Page 32)

- A. Is the facility located on or does the treated effluent cross American Indian Land?
  - 🗆 Yes 🖾 No

□ 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

☑ Not Applicable

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

Click to enter text.

- **C.** Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
  - 🗆 Yes 🖾 No

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

**D.** Do you owe any fees to the TCEQ?

🗆 Yes 🖾 No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

🗆 Yes 🖾 No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

## Section 13. Attachments (Instructions Page 33)

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

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

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

• Applicant's property boundary

Appendix E

- 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: Click to enter text.

### Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0014778001

Applicant: City of Farmersville

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): Eddy Daniel, P.E.

Signatory title: <u>City Engineer</u>

Signature:		Date:	
(Use blue ink)			
Subscribed and Sworn to before	me by the said		
on this	day of	,	20
My commission expires on the	day of		20

Notary Public

[SEAL]

County, Texas

## DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

### Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
  - ☑ The applicant's property boundaries

Appendix F

- 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). Word Document attached to application
- D. Provide the source of the landowners' names and mailing addresses: Appendix F
- **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.

Appendix H

- 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)?



## 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: Appendix A

## WATER QUALITY PERMIT

## PAYMENT SUBMITTAL FORM

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

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

BY OVERNIGHT/EXPRESS MAIL

### Mail this form and the check or money order to:

### BY REGULAR U.S. MAIL

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

### Fee Code: WQP Waste Permit No: <u>WQ0014778001</u>

- 1. Check or Money Order Number: <u>041986</u>
- 2. Check or Money Order Amount: <u>\$2,050.00</u>
- 3. Date of Check or Money Order: <u>05/29/25</u>
- 4. Name on Check or Money Order: City of Farmersville
- 5. APPLICATION INFORMATION

Name of Project or Site: City of Farmersville Wastewater Treatment Plant #3

Physical Address of Project or Site: 15041 CR 550, Farmersville, TX 75442

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

### Staple Check or Money Order in This Space

## **ATTACHMENT 1**

## INDIVIDUAL INFORMATION

### Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

Core Data Form (TCEQ Form No. 10400) (Required for all application types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)				Yes
Correct and Current Industrial Wastewater Permit Application Form (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or late			$\boxtimes$	Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for	· mai	iling ad	⊠ dress	Yes :.)
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)			$\boxtimes$	Yes
Current/Non-Expired, Executed Lease Agreement or Easement	$\boxtimes$	N/A		Yes
Landowners Map (See instructions for landowner requirements)		N/A	$\boxtimes$	Yes

### Things to Know:

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

Landowners Labels and Cross Reference List (See instructions for landowner requirements)		N/A	$\boxtimes$	Yes
Electronic Application Submittal (See application submittal requirements on page 23 of the instruction	s.)		$\boxtimes$	Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred ( <i>If signature page is not signed by an elected official or principle exec a copy of signature authority/delegation letter must be attached</i> )	utive	e officer	∕,	Yes
Summary of Application (in Plain Language)			$\boxtimes$	Yes

TCEQ-10053 (10/17/2024) Domestic Wastewater Permit Application Administrative Report

## APPENDIX D

PUBLIC INVOLVEMENT PLAN FORM



<sup>7</sup> Texas Commission on Environmental Quality

### Public Involvement Plan Form for Permit and Registration Applications

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

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

### Section 1. Preliminary Screening

New Permit or Registration Application New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not

#### need to be submitted.

#### Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

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

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

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

Section 3	B. Applicat	tion Inform	nation		
Type of A	pplication	(check all t	hat apply):		
Air	Initial	Federal	Amendment	Standard Permit	Title V
Waste	-	ll Solid Wast ive Material		and Hazardous Waste Underground I	e Scrap Tire injection Control
Water Qua	ality				
Texas	Pollutant D	oischarge Eli	mination System	(TPDES)	
Те	xas Land A	pplication P	ermit (TLAP)		
Sta	ate Only Co	ncentrated A	Animal Feeding O	peration (CAFO)	
Wa	ater Treatm	ient Plant Re	siduals Disposal	Permit	
Class B Biosolids Land Application Permit					
Domestic Septage Land Application Registration					
147 A. D. 1					
0	hts New Pe				
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.
inguage notice to necessary) i rease provide the ronoving mornation
(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
(a) referre of Englistically isolated flousenoids by language within the specifica 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 r Administrative Code (30 TAC) Chapter 39?	equirements of Title 30 Texas	
Yes No		
(b) If yes, do you intend at this time to provide public out	reach other than what is required by rule?	
Yes No		
If Yes, please describe.		
If you answered "yes" that this application is answering the remaining questions in (c) Will you provide notice of this application in alternativ	Section 6 is not required.	
Yes No		
Please refer to Section 5. If more than 5% of the populat application is Limited English Proficient, then you are r alternative language.		
If yes, how will you provide notice in alternative language	rs?	
Publish in alternative language newspaper		
Posted on Commissioner's Integrated Database W	ebsite	
Mailed by TCEQ's Office of the Chief Clerk		
Other (specify)		
(d) Is there an opportunity for some type of public meeting	ng, including after notice?	
Yes No		
(e) If a public meeting is held, will a translator be provide	ed 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)

### **Candice Calhoun**

From:	Cody Wootton <cwootton@dunaway.com></cwootton@dunaway.com>
Sent:	Friday, June 20, 2025 1:07 PM
То:	Candice Calhoun
Cc:	Jacob Dupuis
Subject:	Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) -
	Notice of deficiency
Attachments:	E - USGS Topo.zip

And here is the USGS topo map. Thank you again for your help.

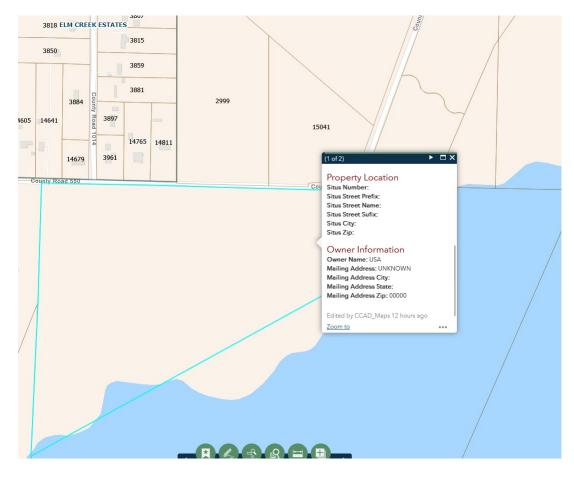
Cody Wootton, EIT Graduate Engineer I T 972.784.7777

From: Cody Wootton <cwootton@dunaway.com>
Sent: Friday, June 20, 2025 1:04 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jacob Dupuis <JDupuis@dunaway.com>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Good Afternoon,

I will address each of your points below in the same order for clarity:

- 1. I have highlighted the discharge path with a neon green highlighting tool on the USGS map. I will attach it to a follow up email, due to its size.
- 2. I have attached the requested NORI translated using the template you provided to this email. It is in the original Word document format, so the sections between the two paragraphs requested are not editable.
- 3. I have added the requested labels to the affected landowner map and changed the line-type of the discharge route to be bright yellow. Please see attached.
- 4. I have added a note to the landowner list in the file mentioned in point 3). These lots are publicly owned land/lakefront; Collin County CAD only provides the information given in the table. (See screenshot below for an example to hopefully clarify)



5. I have added a note to the landowner list in the file mentioned in point 3) that cites the information as received from Collin County CAD, so that the TCEQ Form 10053 Update sent earlier is accurate without further updates.

The files attached to this message contain the updated Appendix F (Affected Landowner Information) and the NORI translated into Spanish. A follow up email will be sent soon containing the USGS map.

Thank again you for your help, **Cody Wootton, EIT** Graduate Engineer I **T** 972.784.7777

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Wednesday, June 18, 2025 1:54 PM
To: Cody Wootton <cwootton@dunaway.com>
Cc: Jacob Dupuis <JDupuis@dunaway.com>
Subject: RE: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Mr. Wootton,

I was able to open each file in the zip folders. The response to items 1, 2, 3, and 6 is sufficient. Please note that the typo on my end, noted in the response to item 6, has been corrected.

However, more information is needed for items 4 and 5, as well as some additional information. Please see below.

- USGS Map If you could highlight the discharge route in a yellow or light-colored highlighter, that would be greatly appreciated, as with how it currently is, it is hard to view. Everything else on this map looks good.
- Since the alternate language required is Spanish, a Spanish NORI will be needed. Please use the template attached to this email to translate the paragraphs provided in the NOD to Spanish. (Note: the first paragraph in the NOD goes in the first paragraph in the NORI and the second paragraph in the NOD goes in the very last paragraph of the NORI).
- Landowner Map please label the applicant's property boundary and the facility boundary on the map. Also, please use a yellow or light-colored highlighter to mark the discharge route. Everything else on this map looks good.
- Landowner List I noticed 4-11 show the owner as "USA" with N/A for the site address/mailing address. Were you not able to retrieve this information from the county appraisal district? If that is the case, please confirm via email. If not, please provide any and all information that is available. If you do update the list with more information, please ensure to provide an updated labels document to reflect that information
- Additional I noticed in the Affected Landowner Information (Administrative Report 1.1), in section 1, item D, it asks for you to provide the source of the landowners' names and mailing addresses, however you referred to the landowner list and labels provided. This is referring to where you got the information. For example, "Collin County Appraisal District". Please update this section to reflect where you had obtained the affected landowner names and address information from.

Please let me know if you have any additional questions. Also, please feel free to send another zip folder with the updated documents, as I know you were having issues sending the PDF's via email.

Regards,

### Candice Courville



License & Permit Specialist ARP Team | Water Quality Division Texas Commission on Environmental Quality 512-239-4312 candice.calhoun@tceq.texas.gov

# How is our customer service? Fill out our online customer satisfaction survey at <a href="http://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>

From: Cody Wootton <cwootton@dunaway.com>
Sent: Wednesday, June 18, 2025 11:57 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jacob Dupuis <JDupuis@dunaway.com>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

One more try hopefully, this ZIP-folder contains one PDF but hopefully it compressed enough to send.

Thank you, **Cody Wootton, EIT** Graduate Engineer I **T** 972.784.7777

From: Cody Wootton <<u>cwootton@dunaway.com</u>>
Sent: Wednesday, June 18, 2025 11:53 AM
To: Candice Calhoun <<u>Candice.Calhoun@tceq.texas.gov</u>>
Cc: Jacob Dupuis <<u>JDupuis@dunaway.com</u>>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

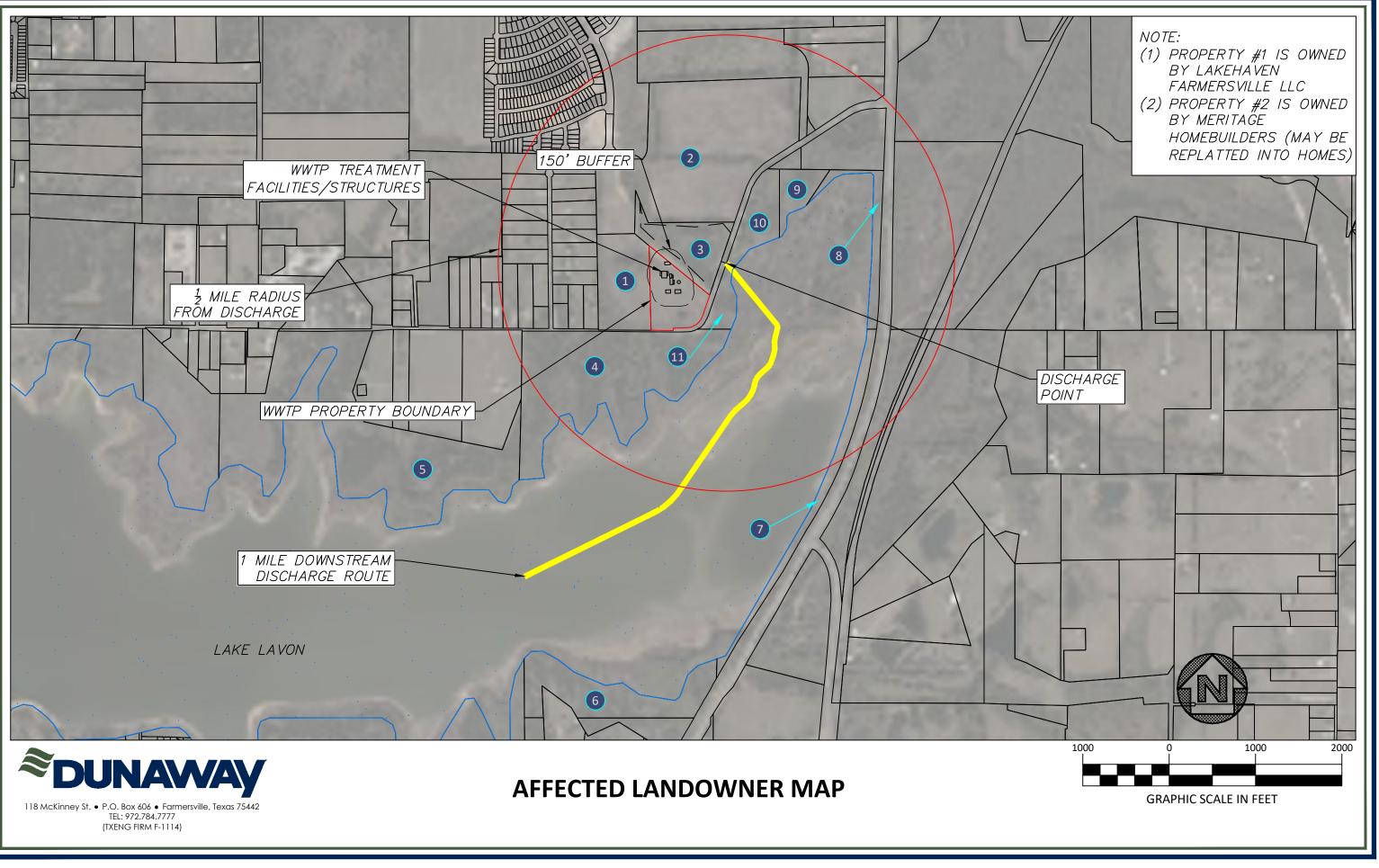
The USGS topo map is attached here. Hopefully they are all accessible now!

Thank you for your help, Cody Wootton, EIT Graduate Engineer I T 972.784.7777

From: Cody Wootton <<u>cwootton@dunaway.com</u>>
Sent: Wednesday, June 18, 2025 11:52 AM
To: Candice Calhoun <<u>Candice.Calhoun@tceq.texas.gov</u>>
Cc: Jacob Dupuis <<u>JDupuis@dunaway.com</u>>
Subject: Re: [EXTERNAL]Application to Amend Permit No. WQ0014778001 (City of Farmersville) - Notice of deficiency

Apologies for the issues with the files! Attached to this message are all of the necessary files for our complete response <u>except</u> the USGS topo map. I will send another message shortly containing that.

Thank you, Cody Wootton, EIT





### AMENDMENT FOR WQ0014778001

### Landowner Cross-Reference

PARCEL NO	OWNER	SITE ADDRESS	MAILING ADDRESS		
1	LAKEHAVEN FARMERSVILLE LLC	2999 COUNTY ROAD 551,	4556 KNOLL RIDGE DR, ALEDO,		
		FARMERSVILLE, TX 75442	TX 76008-5241		
2	MERITAGE HOMES OF TEXAS LLC	2999 COUNTY ROAD 551, FARMERSVILLE, TX 75442	8840 CYPRESS WATERS BLVD		
			STE 100, COPPELL, TX 75019-		
			4615		
3	MARTIN JAMES A & SHIRLEY J	N/A**	4318 LAKESHORE DR,		
3			KINGSTON, OK 73439-6012		
4	USA*	N/A	N/A		
5	USA*	N/A	N/A		
6	USA*	N/A	N/A		
7	USA*	N/A	N/A		
8	USA*	N/A	N/A		
9	USA*	N/A	N/A		
10	USA*	N/A	N/A		
11	USA*	N/A	N/A		
Data Sourced from Collin County Appraisal District					
*Lots marked as owned by "USA" are publicly owned land/boundaries of Lake Lavon*					
**This lot is floodplain for Elm Creek, see attached FIRM**					

#### NOTES TO USERS

b is for use in administering the National Flood Insurance Program. It necessarily identify all areas subject to flooding, particularly from local sources of small size. The community map repository should be to possible updated or additional flood hazard information.

In more detailed information in areas where Base Flood Elevations role floodways have been determined, users are encuraged to consult Profiles and Floodway Data and/or Summary of Silvanet Elevations and the second second second second second second second 4. Users should be aware that BFEs shown on the FIRM represent value-foot levations. These BFEs are interned for flood neurance urposes only and should not be used as the sole source of flood information. Accordingly, flood elevation data presented in the FIS hould be utilized in conjunction with the FIRM for purposes of on aneitor floodpaint management.

Base Flood Elevations shown on this map apply only landward North American Vertical Datum of 1988 (NAVD 88). Users of this ould be aware that costatil flood levarions are also provided in the r of Stillwater Elevations table in the Flood Insurance Study report ignification. Elevations shown in the Summary of Studiwater Elevations valid be used for construction and/or flood/pian management purposes y are higher than the devalutos shown on this FIRM.

es of the **floodways** were computed at cross sections and interpolated cross sections. The floodways were based on hydraulic considerations and to requirements of the National Flood insurance Program. Floodway and other pertinent floodway data are provided in the Flood Insurance port for this jurisdiction.

areas not in Special Flood Hazard Areas may be protected by flood structures. Refer to Section 2.4 "Flood Protection Measures" of d Insurance Study report for information on flood control structures unsdiction.

jection used in the preparation of this map was Universal Transverse (UTM) zone 14. The horizontal datum was NADB3, GRS1980 Differences in datum, spherold, projection or UTM zones used in uction of FIRMs for adjacent jurisdictions may result insight positional is in map features across jurisdiction boundaries. These differences frect the accuracy of this FIRM.

evations on this map are referenced to the North American Vertical f 1988. These flood elevations must be compared to structure and elevations referenced to the same vertical datum. For information conversion between the National Geodetic Vertical Datum of 1929 North American Vertical Datum of 1989, wisit the National Geodetic the following address.

rmation Services /NGS12 Geodetic Survey , #9202 #- West Highway ring, MD 20910- 3282

current elevation, description, and/or location information for **bench marks** on this map, please contact the information Services Branch of the Geodetic Survey at (301) 713-3242, or visit its website at w.ngs.nosa.gov/.

p information shown on this FIRM was provided in digital format by NCTCOG mation was digitized at a scale of at least 1: 12,000 from aerial photography 01.

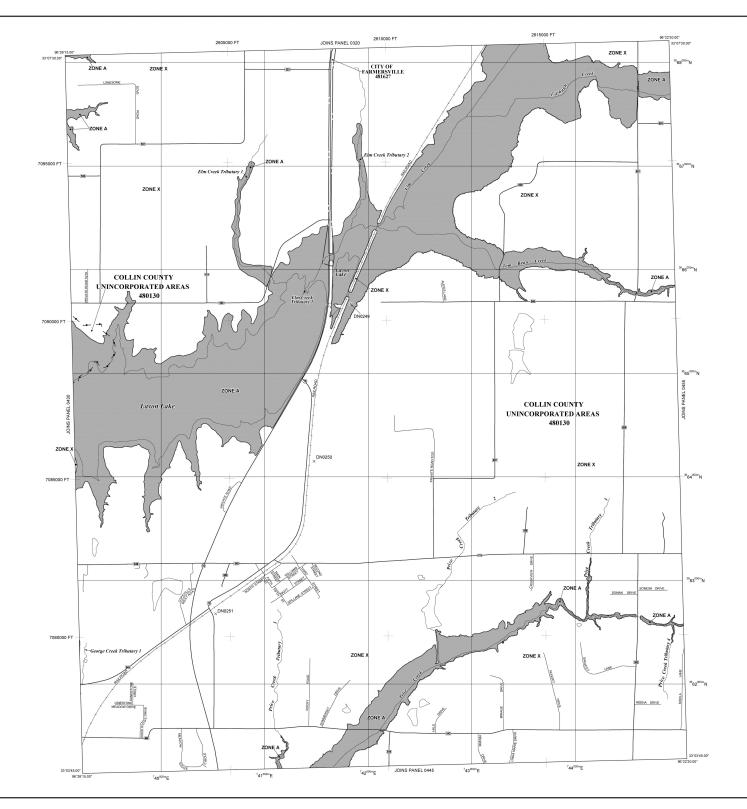
reflects more detailed and up-to-date stream channel configurations se shown on the previous FIRM for this jurisdiction. The floodplains dways that were transferred from the previous FIRM may have been to conform to these new stream channel configurations. As a le Flood Profiles and Floodway Data tables in the Flood instance sport (which contains authoritative hydraulic data may reflect stream distance that differ from what is shown on this mays

te limits shown on this map are based on the best data available me of publication. Because changes due to annexations or de-annexations ev occurred after this map was published, map users should contact te community officials to verify current corporate limit locations.

efer to the separately printed **Map** Index for an overview map of the howing the layout of map panels; community map repository addresses; sting of Communities table containing National Flood Insurance Program r each community as well as a listing of the panels on which each by is located.

First FEMA Map Service Center at 1-800-358-9616 for information on products associated with this FIRM. Available products may include y issued Letters of Map Change, a Flood Insurance Study report, gital versions of this map. The FEMA Map Service Center may also be by Fax at 1-800-386-9620 and its website at http://www.msctema.gov/

ave questions about this map or questions concerning the National urance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) he FEMA website at http://www.fema.gov/.



#### SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJEC INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is that has a 1% chance of being equaled or exceeded in any given year. The flood Hazad chance flood being deviate is the area subject to flooding by the 1% small chance flood of Special Flood Hazad evelocity and VE. The deviation of the Velocit Hazad include Zones A, AE, AH, AO, AR, AB), V and VE. The deviation of the 1% small chance flood. ZONE A No Base Flood Elevations determined. Base Flood Elevations determined. ZONE AE Flood depths of 1 to 3 feet (usually areas of ponding); Base Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually sheet flow on sloping average depths determined. For areas of alluvial fan flooding, also determined. ZONE AO Special Flood Hazard Area formerly protected from the 19 chance flood by a flood control system that was sub-decertified. Zone AR indicates that the former flood control sys being restored to provide protection from the 1% annual cha greater flood. ZONE AR ZONE ASS Area to be protected from 1% annual chance flood by a flood protection system under construction; no Base Flood ZONE Coastal flood zone with velocity hazard (wave action); no Bas Coastal food zone with velocity hazard (wave action); Base ZONE VE (///// FLOODWAY AREAS IN ZONE AE The floodway is the channel of a stream plus any adjacent floodplain areas that kept free of encroachment so that the 1% annual chance flood can be carried substantial increases in flood heights. OTHER FLOOD AREAS Areas of 0.2% annual chance flood; areas of 1% annual chan with average depths of less than 1 foot or with drainage areas is 1 square mile; and areas protected by levees from 1% annual flood. ZONE X OTHER AREAS ZONE X Areas determined to be outside the 0.2% annual chance floodplain ZONE D Areas in which flood hazards are undetermined, but possible. [[[]]] COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREA 2222 OTHERWISE PROTECTED AREAS (OPAs) CBRS areas and OPAs are normally located within or adjacent to Special Flood it Floodplain boundary Floodway boundary \_ \_ \_ Zone D boundary ..... CBRS and OPA bou Boundary dividing Special Flood Hazard Areas of Base Flood Elevations, flood depths or flood veloci Base Flood Elevation line and value; elevation in feet\* - 513 -(EL 987) Base Flood Elevation value where uniform within elevation in feet\* \* Referenced to the North American Vertical Datum of 1988 (NAVD 88) $\langle A \rangle$ -(A) Cross section line Ø······23 Transect line Geographic coordinates ret Datum of 1963 (NAD 83) eferenced to the North 97107301 32122301 4275000mN 1000-meter Universal Transverse Mercator grid values, 5000-foot grid ticks: Texas State Plane c system, north central zone (FIPSZONE 4202), Conformal Conic 6000000 FT DX5510 Bench mark (see explanation in Notes to Users se this FIRM panel) • M1.5 River Mile MAP REPOSITORIES Refer to Map Repositories list on Map Index EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 4, 1991 EFFECTIVE DATE(S) OF REVUSION(S) TO THIS PANEL January 19, 1998 December 19, 1997 Annualy 16, 1960 December 18, 1967 Rood elevations, to incorporate previously issue y, to decrease base flood elevations, to update areas, to add special flood hazard areas, to in ment, and to reflect updated topographic inform o add base f For community map revision history prior to countywide mapping, refer to the G Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your agent or call the National Flood Insurance Program at 1-800-638-6620. MAP SCALE 1" = 1000" 0 1000 500 2000 FEET 600 METER PANEL 0435J RAM FIRM FLOOD INSURANCE RATE OOD INSURANCE PROG COLLIN COUNTY, TEXAS AND INCORPORATED AREA PANEL 435 OF 600 (SEE MAP INDEX FOR FIRM PANEL L CONTAINS: COMMUNITY COLLIN COUNTY FARMERSVILLE, CITY OF NUMBER PANEL 480130 0435 481627 0435 Ľ NATIONAL MAP N Đ 48085

MAP R

Federal Emergency Management

LEGEND

LAKEHAVEN FARMERSVILLE LLC 4556 KNOLL RIDGE DR ALEDO, TX 76008-5241	MERITAGE HOMES OF TEXAS LLC 8840 CYPRESS WATERS BLVD STE 100 COPPELL, TX 75019-4615	MARTIN JAMES A & SHIRLEY J 4318 LAKESHORE DR KINGSTON, OK 73439-6012

### AMENDMENT FOR WQ0014778001

### Landowner Cross-Reference

PARCEL NO	OWNER	SITE ADDRESS	MAILING ADDRESS		
1	LAKEHAVEN FARMERSVILLE LLC	2999 COUNTY ROAD 551,	4556 KNOLL RIDGE DR, ALEDO,		
		FARMERSVILLE, TX 75442	TX 76008-5241		
2	MERITAGE HOMES OF TEXAS LLC	2999 COUNTY ROAD 551, FARMERSVILLE, TX 75442	8840 CYPRESS WATERS BLVD		
			STE 100, COPPELL, TX 75019-		
			4615		
3	MARTIN JAMES A & SHIRLEY J	N/A**	4318 LAKESHORE DR,		
3			KINGSTON, OK 73439-6012		
4	USA*	N/A	N/A		
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6	USA*	N/A	N/A		
7	USA*	N/A	N/A		
8	USA*	N/A	N/A		
9	USA*	N/A	N/A		
10	USA*	N/A	N/A		
11	USA*	N/A	N/A		
Data Sourced from Collin County Appraisal District					
*Lots marked as owned by "USA" are publicly owned land/boundaries of Lake Lavon*					
**This lot is floodplain for Elm Creek, see attached FIRM**					

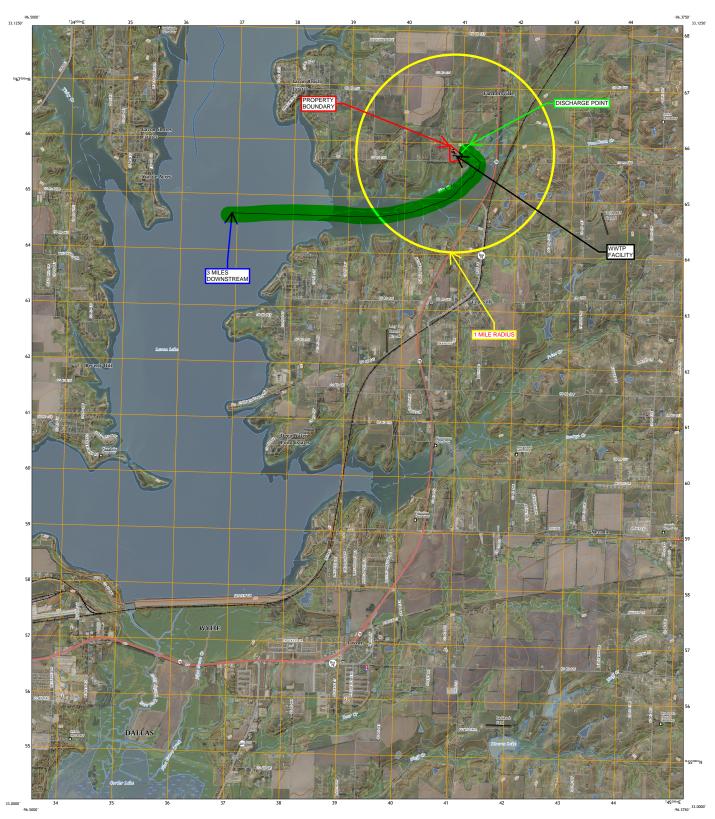
## APPENDIX E

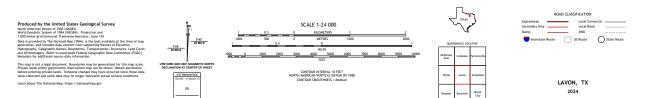
## **USGS TOPO MAP**



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







Zone De