

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



Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
- 2. Primer aviso (NORI, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
- 3. Solicitud original

TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

Dayton Land Investment, LLC (CN New) proposes to operate the CR 602 Development Wastewater Treatment Plant (RN New), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 3,175 feet southwest of the intersection of County Road 605 and County Road 611, in Dayton, Liberty County, Texas 77535. This application for a new application to discharge a daily average flow of 300,000 gallons per day of treated domestic wastewater..

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

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

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

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

Dayton Land Investment, LLC (CN New) propone operar la Planta de Tratamiento de Aguas Residuales de CR 602 Desarrollo (RN New), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 3175 pies al suroeste de la interseccion de la Carretera del Condado 605 y Carretera del Condado 611, en Dayton, Condado de Liberty, Texas 77535. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 300,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días ($CBOD_5$), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NH_c -N), y *Escherichia coli*. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos.. Las aguas residuales domésticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsas de aireación, clarificadores finales, digestores de lodos, y cámaras de contacto de cloro. .

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016614001

APPLICATION. Dayton Land Investment LLC, 1401 Woodlands Parkway, The Woodlands, Texas 77380, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016614001 (EPA I.D. No. TX0146561) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 300,000 gallons per day. The domestic wastewater treatment facility will be located at approximately 3,175 feet southwest of the intersection of County Road 605 and County Road 611, in the city of Dayton, in Liberty County, Texas 77535. The discharge route will be from the plant site to on-site drainage ditch, thence to Liberty County WCID #1 Drainage ditch, thence to Cedar Bayou Above Tidal. TCEQ received this application on September 4, 2024. The permit application will be available for viewing and copying at Jones Public Library, reference desk, 801 South Cleveland Street, Dayton, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/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=-95.00211,30.025394&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Dayton Land Investment LLC at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers Inc, at 281-373-0500.

Issuance Date: September 27, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQoo16614001

SOLICITUD. Dayton Land Investment LLC, 1401 Woodlands Parkway, The Woodlands, Tejas 77380, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016614001 (EPA I.D. No. TX0146561) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 300,000 galones por día. La planta está ubicada aproximadamente 3,175 pies al suroeste de la interseccion de la Carretera del Condado 605 y Carretera del Condado 611, cerca de la Ciudad de Dayton, en el Condado de Liberty, Texas 77535. La ruta de descarga será desde el sitio de la planta hasta la zanja de drenaje en el sitio, de allí a la zanja de #1 Drainage WCID del condado de Liberty, y de allí a Cedar Bayou Above Tidal. La TCEQ recibió esta solicitud el 4 de septiembre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca Publica de Jones, excritorio de referencia, 801 Camino de Cleveland Sur, Dayton, en Condado de Liberty, Tejas 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/pendingpermits/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=-95.00211,30.025394&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

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

CONTACTOS E INFORMACIÓN 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 Dayton Land Investment LLC a la dirección indicada arriba o llamando a Ms. Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de emisión 27 de septiembre de 2024



WATER & WASTEWATER TREATMENT CONSULTANTS

17230 HUFFMEISTER ROAD, SUITE A~CYPRESS, TEXAS 77429-1643 Tel: 281-373-0500 Fax: 281-373-1113

Overnight by UPS

September 3, 2024

Executive Director Water Quality Applications Team (MC 148) Texas Commission on Environmental Quality 12100 Park 35 Circle Austin, Texas 78753

Re: I

Dayton Land Investment, LLC.

Application for a New TPDES Permit

CR 602 Development Wastewater Treatment Plant

Dear Sir/Ms:

Enclosed please find the original and four copies of the Application for a New Texas Pollution Discharge Elimination System Permit for the proposed CR 602 Development Wastewater Treatment Plant in Liberty County.

Please contact Shelley Young, P.E. at 281-373-0500 or at <u>syoung@waterengineers.com</u> if there are any questions related to the material presented in the application.

Sincerely,

WATERENGINEERS, INC.

Shelley found Shelley Young, P.E.

Encl: As noted

APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

FOR

CR 602 DEVELOPMENT WASTEWATER TREATMENT PLANT

DAYTON LAND INVESTMENT, LLC 1401 WOODLANDS PARKWAY THE WOODLANDS, TX 77380

PREPARED BY:

WATERENGINEERS, INC.

WATER & WASTEWATER TREATMENT CONSULTANTS 17230 HUFFMEISTER ROAD, SUITE A, CYPRESS, TEXAS 77429 Tel: 281-373-0500 FAX: 281-373-1113

AUGUST 2024

APPLICATION FOR A NEW TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT

FOR

CR 602 DEVELOPMENT

WASTEWATER TREATMENT PLANT

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STORMISSION OF THE PROPERTY OF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: <u>Dayton Land Investment, LLC</u>
PERMIT NUMBER (If new, leave blank): WQ00 <u>New</u>

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

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

For TCEQ Use Only	
Segment Number	County
Expiration Date	Region
Permit Number	

SCOMM/SS/OHPS

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	Inform	ation
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Mailed Check/Money Order Number: 1399

Check/Money Order Amount: \$1,250.00

Name Printed on Check: WaterEngineers, Inc.

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							
	\boxtimes	Privately-Owned Domestic Wastewater							
		Conventional Wastewater Treatment							
b.	Che	ck the box next to the appropriate facility status. Active Inactive							

C.	Che	eck the box next to the appropriate permit typ	e.	
	\boxtimes	TPDES Permit		
		TLAP		
		TPDES Permit with TLAP component		
		Subsurface Area Drip Dispersal System (SAD	DS)	а
d.	Che	eck the box next to the appropriate application	ı typ	e
	\boxtimes	New		
		Major Amendment with Renewal		Minor Amendment with Renewal
		Major Amendment without Renewal		Minor Amendment without Renewal
		Renewal without changes		Minor Modification of permit
e.	For	amendments or modifications, describe the p	ropo	osed changes: <u>N/A</u>
f.	For	existing permits:		
	Per	mit Number: WQ00 <u>N/A</u>		
	EPA	I.D. (TPDES only): TX <u>N/A</u>		
	Exp	iration Date: <u>N/A</u>		
Se	ctio	on 3. Facility Owner (Applicant) a (Instructions Page 26)	nd	Co-Applicant Information
A.	The	e owner of the facility must apply for the per	rmit.	
	Wha	at is the Legal Name of the entity (applicant) a	pply	ing for this permit?
	Day	ton Land Investment, LLC		
		e legal name must be spelled exactly as filed w legal documents forming the entity.)	ith ti	he Texas Secretary of State, County, or i
		ne applicant is currently a customer with the T n may search for your CN on the TCEQ website		

CN: New

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

Prefix: Mr. Last Name, First Name: Signorelli, Daniel K.

Title: Managing Member Credential: Click to enter text.

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

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

N/A

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. <u>ADMIN.03</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: Ms. Last Name, First Name: Young, Shelley

Title: Consulting Engineer Credential: P.E.

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A City, State, Zip Code: Cypress, TX 77429

Phone No.: 281-373-0500 E-mail Address: syoung@waterengineers.com

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

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

Organization Name: Click to enter text.

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

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

Check one or both:

Administrative Contact

Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Signorelli, Daniel K.

Title: Managing Member Credential: Click to enter text.

Organization Name: Dayton Land Investment, LLC

Mailing Address: 1401 Woodlands Parkway City, State, Zip Code: The Woodlands, TX 77380

Phone No.: 713-452-1700 E-mail Address: land.development@signorellicompany.com

B. Prefix: Mr. Last Name, First Name: Robinson, Ragan

Title: Land Acquisition Manager Credential: Click to enter text.

Organization Name: Signorelli Company

Mailing Address: 1401 Woodlands Parkway City, State, Zip Code: The Woodlands, TX 77380

Phone No.: 713-452-1700 E-mail Address: rrobinson@signorellicompany.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Robinson, Ragan

Title: Land Acquisition Manager Credential: Click to enter text.

Organization Name: Signorelli Company

Mailing Address: 1401 Woodlands Parkway City, State, Zip Code: The Woodlands, TX 77380

Phone No.: 713-452-1700 E-mail Address: rrobinson@signorellicompany.com

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

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

Prefix: Mr. Last Name, First Name: Robinson, Ragan

Title: Land Acquisition Manager Credential: Click to enter text.

Organization Name: Signorelli Company

Mailing Address: 1401 Woodlands Parkway City, State, Zip Code: The Woodlands, TX 77380

Phone No.: 713-452-1700 E-mail Address: rrobinson@signorellicompany.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Young, Shelley

Title: Consulting Engineer Credential: P.E.

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A City, State, Zip Code: Cypress, TX 77429

Phone No.: <u>281-373-0500</u> E-mail Address: <u>syoung@waterengineers.com</u>

	Pa	ckage			
	Inc	dicate b	y a check m	ark t	he preferred method for receiving the first notice and instructions:
	\boxtimes	E-mai	il Address		
		Fax			
		Regul	ar Mail		
C.	Co	ntact p	ermit to be	liste	d in the Notices
	Pre	efix: <u>Ms</u> .	<u>.</u>		Last Name, First Name: Young, Shelley
	Tit	le: <u>Cons</u>	ulting Engine	eer	Credential: <u>P.E.</u>
	Or	ganizati	ion Name: <u>V</u>	Vaterl	Engineers, Inc.
	Ma	iling Ac	ddress: <u>1723</u> 0	o Huf	fmeister Road, Suite A City, State, Zip Code: Cypress, TX 77429
	Ph	one No.	281-373-05	00	E-mail Address: syoung@waterengineers.com
D.	Pu	blic Vie	wing Inform	natio	on .
	•	•	ity or outfal ist be provid		cated in more than one county, a public viewing place for each
	Pu	blic buil	lding name:	Jones	s Public Library
	Lo	cation w	vithin the bu	ıildin	g: <u>Reference Desk</u>
	Ph	ysical A	ddress of B	uildir	ig: 801 S. Cleveland Street
	Cit	y: <u>Dayto</u>	on 77535		County: <u>Liberty</u>
	Co	ntact (L	ast Name, F	irst N	(ame): <u>Sikes, Sherry</u>
	Ph	one No.:	936-258-70	<u>60</u> Ex	xt.: Click to enter text.
E.	Bil	ingual l	Notice Requ	irem	ents
					ed for new, major amendment, minor amendment or minor applications.
	be	needed		nstru	tion is only used to determine if alternative language notices will actions on publishing the alternative language notices will be in .
	ob				L coordinator at the nearest elementary and middle schools and nation to determine whether an alternative language notices are
	1.				program required by the Texas Education Code at the elementary at to the facility or proposed facility?
			Yes		No
		If no , p	oublication o	of an	alternative language notice is not required; skip to Section 9
	2.	Are the			tend either the elementary school or the middle school enrolled in ogram at that school?
			Yes		No

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

	3.	Do the locatio	students at n?	these	e schools a	ttend	a bilingua	l educa	ation prog	ram a	t another
			Yes	\boxtimes	No						
	4.		the school b out of this i							gram l	out the school has
			Yes	\boxtimes	No						
	5.		nswer is yes ed. Which lan								tive language are
F.	Pla	in Lang	guage Summ	ary 1	Template						
	Co	mplete	the Plain Lar	ıguag	e Summai	у (ТСЕ	EQ Form 2	0972) a	and includ	de as a	ın attachment.
	Atı	tachme	nt: <u>ADMIN.o</u>	4							
G.	Pu	blic Inv	olvement Pl	lan Fo	orm						
	Co	mplete :	the Public In	volve	ment Plan	Form	(TCEO Fo	rm 209)60) for ea	ich ap	plication for a
	ne	w perm	it or major a	amen	dment to	a pern	nit and in	clude a	s an attac	hmen	t.
	Att	tachmei	nt: <u>ADMIN.o.</u>	5							
0			D 1.			1.5					/ -
Se	cti	on 9.	Regulat Page 29		entity ar	id Pe	rmitted	Site	Informa	ation	(Instructions
A.		he site i s site. R		regula	ated by TC	EQ, pr	ovide the	Regula	ited Entity	/ Num	ber (RN) issued to
			TCEQ's Cencertly reg				/www15.t	ceq.tex	as.gov/cr	pub/	to determine if
B.	Na	me of p	roject or site	e (the	name kno	wn by	the comm	nunity	where loc	ated):	
	CR	602 Dev	elopment								
C.	Ow	ner of t	reatment fac	cility:	Dayton La	nd Inve	estment, Ll	<u>LC</u>			
	Ow	nership	of Facility:		Public	\boxtimes	Private		Both		Federal
D.	Ow	ner of l	and where tr	reatm	ent facilit	y is or	will be:				
	Pre	fix: Clic	k to enter te	ext.	Last	Name	, First Nar	ne: Clic	ck to ente	r text.	
	Tit	le: Click	to enter tex	t.	Cred	lential	Click to	enter te	ext.		
	Org	ganizati	on Name: <u>Da</u>	yton	Land Inves	tment,	LLC				
	Mai	iling Ad	dress: <u>1401 V</u>	Voodl	ands Parkv	vay	City, State	, Zip C	ode: <u>The V</u>	Voodla	nds, TX 77380
	Pho	one No.:	713-452-1700	<u>0</u>	E-m	ail Ad	dress: <u>rro</u> l	binson@	signorelli	compa	ny.com
	If the	he lando eement	owner is not or deed reco	the s	same perso l easemen	on as t See i	he facility nstructior	owner 1s.	or co-app	olican	t, attach a lease
		Attachi	ment: Click t	o ent	er text.						

E.	Owner of effluent disposal site:	
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. 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 agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
F.	Owner sewage sludge disposal si property owned or controlled by	te (if authorization is requested for sludge disposal on the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. 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 agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
Se	ction 10. TPDES Dischar	ge Information (Instructions Page 31)
		ge Information (Instructions Page 31) ity location in the existing permit accurate?
	Is the wastewater treatment facil ☐ Yes ☐ No If no, or a new permit application	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 3,175 feet southwes County Road 611 in Dayton, Liberty	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and y County
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 3,175 feet southwes County Road 611 in Dayton, Liberty	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and
A.	Is the wastewater treatment facil ☐ Yes ☐ No If no , or a new permit application Approximately 3,175 feet southwest County Road 611 in Dayton, Liberty Are the point(s) of discharge and ☐ Yes ☐ No If no , or a new or amendment personners of discharge and the discharge and	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and y County the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 3,175 feet southwest County Road 611 in Dayton, Liberty Are the point(s) of discharge and Yes No If no, or a new or amendment perpoint of discharge and the discharge and the discharge and on-site drainage ditch; thence	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and y County the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the
A.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 3,175 feet southwest County Road 611 in Dayton, Liberty Are the point(s) of discharge and Yes No If no, or a new or amendment perpoint of discharge and the discharge and the discharge and on-site drainage ditch; thence	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and y County the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 e to Liberty County WCID #1 Drainage Ditch; thence to Cedar o902 of the Trinity-San Jacinto Coastal Basin
A.	Is the wastewater treatment facil ☐ Yes ☐ No If no, or a new permit application Approximately 3,175 feet southwest County Road 611 in Dayton, Liberty Are the point(s) of discharge and ☐ Yes ☐ No If no, or a new or amendment perion of discharge and the discharge and the discharge and on-site drainage ditch; thence Bayou Above Tidal in Segment No.	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and y County the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 e to Liberty County WCID #1 Drainage Ditch; thence to Cedar 0902 of the Trinity-San Jacinto Coastal Basin
А.	Is the wastewater treatment facil Yes No If no, or a new permit application Approximately 3,175 feet southwest County Road 611 in Dayton, Liberty Are the point(s) of discharge and Yes No If no, or a new or amendment period point of discharge and the discharge and the discharge and the discharge and on-site drainage ditch; thence Bayou Above Tidal in Segment No. City nearest the outfall(s): Dayton County in which the outfalls(s) is	ity location in the existing permit accurate? on, please give an accurate description: t of the intersection of County Road 605 (Slew Road) and y County the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 e to Liberty County WCID #1 Drainage Ditch; thence to Cedar 0902 of the Trinity-San Jacinto Coastal Basin // are located: Liberty discharge to a city, county, or state highway right-of-way, or

	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: N/A
Se	ection 11. TLAP Disposal Information (Instructions Page 32)
Α.	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.
	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.
Se	ction 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.
Se	ction 13. Attachments (Instructions Page 33)
Inc	licate 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.
\boxtimes	Original full-size USGS Topographic Map with the following information:
	 Applicant's property boundary Treatment facility boundary Labeled point of discharge for each discharge point (TPDES only) Highlighted discharge route for each discharge point (TPDES only) Onsite sewage sludge disposal site (if applicable) Effluent disposal site boundaries (TLAP only) New and future construction (if applicable) 1 mile radius information 3 miles downstream information (TPDES only) All ponds.
	Attachment 1 for Individuals as co-applicants
\boxtimes	Other Attachments, Please specify: ADMIN.01-USGS Map. ADMIN.02-Proof of Payment.

ADMIN.03-Core Data Form, ADMIN.04-PLS English and Spanish, ADMIN.05-Public Involvement Form, ADMIN.06-Affected Landowner List and Map, ADMIN.08-Buffer Zone Map, ADMIN.09-SPIF Form and Maps

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New

Applicant: <u>Dayton Land Investment, LLC</u>

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.

ignatory name (typed or printed): <u>Daniel K. Signorelli</u>
ignatory title: <u>Managing Member</u>
ignature:
(Use blue ink)
ubscribed and Sworn to before me by the said Daniel K. Signorelli
n this 30 th day of August 20 24.
ubscribed and Sworn to before me by the said Daniel K. Signorelling this day of August, 2014. Ity commission expires on the 12th day of September, 2025.
Henry Vance
otary Public DIANE VANCE SEAL
Notary Public, State of Texas Notary ID 21616
- Val V [1] 71 D 1 0 +

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)

	rate by a check mark that the landowners map or drawing, with scale, includes the wing information, as applicable:			
\boxtimes	The applicant's property boundaries			
\boxtimes	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			
	Indicate by a check mark that a separate list with the landowners' names and mailing esses cross-referenced to the landowner's map has been provided.			
Indic	Indicate by a check mark in which format the landowners list is submitted:			
	USB Drive □ Four sets of labels			
Provi <u>Distri</u>	de the source of the landowners' names and mailing addresses: <u>Liberty County Appraisal</u> ct			
	equired by $Texas\ Water\ Code\ \S\ 5.115$, is any permanent school fund land affected by application?			
	Yes 🖾 No			

B.

C.

D.

E.

	If yo	es, provide the location and foreseeable impacts and effects this application has on the l(s):
		ck to enter text.
Se	ectio	on 2. Original Photographs (Instructions Page 38)
Pr	ovide	original ground level photographs. Indicate with checkmarks that the following ation is provided.
	\boxtimes	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
	\boxtimes	A plot plan or map showing the location and direction of each photograph
Se	ectio	on 3. Buffer Zone Map (Instructions Page 38)
A.	info	fer zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the following rmation. The applicant's property line and the buffer zone line may be distinguished by g dashes or symbols and appropriate labels.
	•	The required buffer zone; and
В.		er zone compliance method. Indicate how the buffer zone requirements will be met. ck all that apply.
		☑ Ownership
	Ē	Restrictive easement
		Nuisance odor control
] Variance
C.		uitable site characteristics. Does the facility comply with the requirements regarding uitable site characteristic found in 30 TAC § 309.13(a) through (d)?
	Σ	☑ 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: ADMIN.09

SCOMMISSION OF THE PROPERTY OF

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>0.100</u> 2-Hr Peak Flow (MGD): <u>0.400</u>

Estimated construction start date: Q2 2025
Estimated waste disposal start date: Q2 2026

B. Interim II Phase

Design Flow (MGD): <u>0.200</u> 2-Hr Peak Flow (MGD): 0.800

Estimated construction start date: <u>Q3 2026</u> Estimated waste disposal start date: <u>Q2 2027</u>

C. Final Phase

Design Flow (MGD): <u>0.300</u> 2-Hr Peak Flow (MGD): <u>1.200</u>

Estimated construction start date: <u>Q1 2028</u> Estimated waste disposal start date: <u>Q4 2028</u>

D. Current Operating Phase

Provide the startup date of the facility: not yet built

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**.

In Interim Phase I, flow will enter the 0.100 mgd conventional activated sludge with nitrification plant through a bar screen into the aeration basin, thence to the clarifier, thence to the chlorine contact chamber for disinfection and discharge. Sludge from the bottom of the clarifier will either be returned to the aeration basin or wasted to the digester. Phase II will add an identical 0.100 mgd plant as that in Phase I. After the screening facility, flow will go through a flow splitter and be split 50%-50%. The Final Phase will add yet another identical 0.100 mgd plant with flow being split 33%-33%-34%.

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)
Phase I/Phase II/ Phase III		
Aeration Basins	2/4/6	32' L x 12' W x 10.5' SWD
Clarifier	1/2/3	22' diam. x 10.5' SWD
Digesters	2/4/6	20' L x 12' W x 10.5' SWD
Chlorine Contact Chamber	1/2/3	8' L x 12' W x 8.5' SWD

C. Process Flow Diagram

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

Attachment: TECH.02

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

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

• Latitude: 30.025239

Longitude: <u>-95.002475</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.

Provide the name and a des County Road 602 residential		erved by the treatment	facility.
Collection System Informati each uniquely owned collection systems. examples.	ction system, existing	and new, served by thi	s facility, including
Collection System Informatio Collection System Name	Owner Name	Owner Type	Population Served
County Road 602 Development	Dayton Land Development, LLC	Privately Owned	3300
		Choose an item.	
		Choose an item.	
		Choose an item.	
Section 4. Unbuilt P	hases (Instructio	one Dago 45)	
Is the application for a rene □ Yes ⊠ No If yes, does the existing per years of being authorized b	wal of a permit that c	ontains an unbuilt phas	-
☐ Yes ☐ No If yes, provide a detailed dis Failure to provide sufficient recommending denial of th	t justification may r	esult in the Executive 1	-
Click to enter text.			

Section 5. Closure Plans (Instructions Page 45)

Attachment: TECH.03

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 y	yes, was a closure plan submitted to the TCEQ?
	□ Yes □ No
If y	yes, provide a brief description of the closure and the date of plan approval.
Cl	ick to enter text.
Se	ction 6. Permit Specific Requirements (Instructions Page 45)
	r applicants with an existing permit, check the Other Requirements or Special ovisions 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 <i>requirement or provision</i> 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.
В.	Buffer zones
	Have the buffer zone requirements been met?
	⊠ Yes □ No
	Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
	Click to enter text.

C.	Ot	her actions required by the current permit
	su	bes the Other Requirements or Special Provisions section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.
		□ Yes □ No
		yes , provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	N	T/A
D.	Gr	it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		Click to enter text.
	3.	Grit disposal
		Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?
		□ Yes □ No
		If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

		Describe the method of grit disposal.
		Click to enter text.
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		Click to enter text.
E.	Sto	ormwater management
	1.	Applicability
		Does the facility have a design flow of 1.0 MGD or greater in any phase?
		□ Yes ⊠ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		□ Yes ⊠ No
		If no to both of the above, then skip to Subsection F, Other Wastes Received.
	2.	MSGP coverage
		Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		□ Yes □ No
		If yes , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 Click to enter text. or TXRNE Click to enter text.
		If no, do you intend to seek coverage under TXR050000?
		□ Yes □ No
	3.	Conditional exclusion
		Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?
		□ Yes □ No

	If yes, please explain below then proceed to Subsection F, Other Wastes Received:
	Click to enter text.
4.	Existing coverage in individual permit Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	□ Yes □ No
	If yes , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.
	Click to enter text.
5.	Zero stormwater discharge
	Do you intend to have no discharge of stormwater via use of evaporation or other means?
	□ Yes □ No
	If yes, explain below then skip to Subsection F. Other Wastes Received.
	Click to enter text.
	Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.
5.	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.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
		yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text.
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD ₅ concentration of the sludge, and the design BOD ₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	<i>2.</i>	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

millions of gallons), an estimate of the BOD ₅ concentration of the septic waste, and the
design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
Click to enter text.
Note: Demoite that accept also due from other works when the two two the same leads
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

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

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

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.

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

^{*}TPDES permits only †TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Not yet chosen

Facility Operator's License Classification and Level: Corhigher

Facility Operator's License Number: Click to enter text.

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

A.	WW	TP's Biosolids Management Facility Type
	Che	ck all that apply. See instructions for guidance
		Design flow>= 1 MGD
		Serves >= 10,000 people
		Class I Sludge Management Facility (per 40 CFR § 503.9)
	\boxtimes	Biosolids generator
		Biosolids end user – land application (onsite)
		Biosolids end user - surface disposal (onsite)
		Biosolids end user - incinerator (onsite)
B.	ww	TP's Biosolids Treatment Process
	Che	ck all that apply. See instructions for guidance.
	\boxtimes	Aerobic Digestion
		Air Drying (or sludge drying beds)
		Lower Temperature Composting
		Lime Stabilization
		Higher Temperature Composting
		Heat Drying
		Thermophilic Aerobic Digestion
		Beta Ray Irradiation
		Gamma Ray Irradiation
		Pasteurization
		Preliminary Operation (e.g. grinding, de-gritting, blending)
		Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
		Sludge Lagoon
		Temporary Storage (< 2 years)
		Long Term Storage (>= 2 years)
		Methane or Biogas Recovery
		Other Treatment Process: Click to enter text.

C. Biosolids Management

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
Other	Off-site Third-Party Handler or Preparer	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: Mount Houston Road MUD

TCEQ permit or registration number: Click to enter text.

County where disposal site is located: Harris

E. Transportation method

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

Name of the hauler: <u>Magna-Flow Environmental</u> Hauler registration number: <u>Click to enter text</u>.

Sludge is transported as a:

Liquid 🛛	semi-liquid 🗆	semi-solid □	solid □
	o come majoritor —	ociim ooiim —	001101

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

A. Beneficial use authorization

Does the existing	permit	include	authorizatio	on for	land	application	of sewage	sludge fo
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 □ N	0									
B. Sludge processing	authorization									
Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?										
Sludge Compost	dge Composting □ Yes ⊠ No									
Marketing and D	istribution of sludge		Yes	\bowtie	No					
Sludge Surface I	isposal or Sludge Monofill		Yes	\boxtimes	No					
Temporary stora	ge in sludge lagoons		Yes	\boxtimes	No					
authorization, is the Technical Report (7	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?									
Section 11. Sewa	ge Sludge Lagoons (In	stru	ctions	Page	e 53)					
Does this facility include	e sewage sludge lagoons?									
□ Yes ⊠ No										
If yes, complete the ren	nainder of this section. If no,	proc	eed to S	ection	12.					
A. Location information	n									
The following maps provide the Attachn	are required to be submitted lent Number.	d as p	art of tl	ne app	lication. For each map,					
 Original General 	ral Highway (County) Map:									
Attachment:	Click to enter text.									
 USDA Natura 	Resources Conservation Se	rvice S	Soil Map):						
Attachment:	Click to enter text.									
 Federal Emer 	gency Management Map:									
Attachment:	Click to enter text.									
• Site map:										
	Click to enter text.									
Discuss in a descrip apply.	tion if any of the following e	xist w	vithin th	ie lago	on area. Check all that					
□ Overlap a de	signated 100-year frequency	floo	d plain							
\square Soils with fle	Soils with flooding classification									
🗆 Overlap an ı	Overlap an unstable area									
□ Wetlands	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.
D	Temporary storage information
D,	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: <u>Click to enter text.</u>
	Copper: Click to enter text.
	Lead: Click to enter text.
	Mercury: Click to enter text.
	Molybdenum: Click to enter text.
	Nickel: <u>Click to enter text.</u>
	Selenium: Click to enter text.
	Zinc: Click to enter text.
	Total PCBs: <u>Click to enter text.</u>
	Provide the following information:
	Volume and frequency of sludge to the lagoon(s): Click to enter text.
	Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.
	Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.
C.	Liner information
	Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?
	□ Yes □ No

	If yes, describe the liner below. Please note that a liner is required.							
	Click	k to ente	er te	xt.				
D.	Site d	levelop	men	t plan				
				d description of the methods used to deposit sludge in the lagoon(s):				
	Click	k to ente	er te	kt.				
	Attac	h the fo	llow	ring documents to the application.				
	•	Plan v	iew a	and cross-section of the sludge lagoon(s)				
		Attach	me	nt: Click to enter text.				
	•	Copy	of th	e closure plan				
		Attack	me	nt: Click to enter text.				
	•	Copy o	of de	eed recordation for the site				
		Attach	ımeı	nt: Click to enter text.				
	•	Size of	f the	sludge lagoon(s) in surface acres and capacity in cubic feet and gallons				
		Attach	mei	nt: Click to enter text.				
	•			n of the method of controlling infiltration of groundwater and surface n entering the site				
		Attach	ımeı	nt: <u>Click to enter text.</u>				
	•	Proced	lure	s to prevent the occurrence of nuisance conditions				
		Attach	ımeı	nt: Click to enter text.				
E.	Grou	ndwatei	r mo	onitoring				
	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				
	types	encoun	tere	onitoring data are available, provide a copy. Provide a profile of soil down to the groundwater table and the depth to the shallowest separate attachment.				

Attachment: Click to enter text.

E.

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:
C	lick to enter text.
В.	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:
C	lick to enter text.
Se	ction 13. RCRA/CERCLA Wastes (Instructions Page 55)
	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:
 - 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
 - o 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: N/A-New Application

Title: Click to enter text.

Signature:
Date:

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

Α.	Justific	ation	of pe	ermit	need
	3000		O. P.		11000

B.

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.

re	commending denial of the proposed phase(s) or permit.
	There are no facilities in the proximate area willing or able to provide capacity.
Re	egionalization of facilities
	or additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> reatment ¹ .
	ovide the following information concerning the potential for regionalization of domestic astewater treatment facilities:
1.	Municipally incorporated areas
	If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.
	Is any portion of the proposed service area located in an incorporated city?
	□ Yes ⊠ No □ Not Applicable
	If yes, within the city limits of: Click to enter text.
	If yes, attach correspondence from the city.
	Attachment: Click to enter text.
	If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.
	Attachment: Click to enter text.
2.	Utility CCN areas
	Is any portion of the proposed service area located inside another utility's CCN area?
	□ Yes ⊠ No

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

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): Click to enter text.

Average Influent Organic Strength or BOD₅ Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): <u>Click</u> to enter text.

Provide the source of the average organic strength or BOD₅ 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.

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	0.100/0.200/0.300	300/300/300
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.100/0.200/0.300	
AVERAGE BOD₅ from all sources		300/300/300

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: 10

Total Suspended Solids, mg/l: $\underline{15}$

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: E.Coli: 126 mpn/100 ml

B.	Interim II Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: 10
	Total Suspended Solids, mg/l: <u>15</u>
	Ammonia Nitrogen, mg/l: 3
	Total Phosphorus, mg/l: <u>N/A</u>
	Dissolved Oxygen, mg/l: 4
	Other: <u>E.Coli: 126 mpn/100 ml</u>
C.	Final Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: 10
	Total Suspended Solids, mg/l: <u>15</u>
	Ammonia Nitrogen, mg/l: 3
	Total Phosphorus, mg/l: <u>N/A</u>
	Dissolved Oxygen, mg/l: 4
	Other: E.Coli: 126 mpn/100 ml
D.	Disinfection Method
	Identify the proposed method of disinfection.
	□ Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow
	Dechlorination process: N/A
	☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow
	☐ Other: Click to enter text.
	differ cher to enter text.
Se	ection 4. Design Calculations (Instructions Page 59)
	tach design calculations and plant features for each proposed phase. Example 4 of the
ıns	structions includes sample design calculations and plant features.
	Attachment: TECH.01
Se	ection 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?
	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.

]	Provid	e the source(s) used to determine 100-year frequency flood plain.
	4829	1C0425D
1	For a r	new or expansion of a facility, will a wetland or part of a wetland be filled?
•		Yes \(\Sigma\) No
1		has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?
		Yes \(\sigma\) No
]		provide the permit number: <u>Click to enter text.</u>
l	If no, p	provide the approximate date you anticipate submitting your application to the Click to enter text.
В. У	Wind 1	ose
1	Attach	a wind rose: <u>TECH.03</u>
Soc	ction	6. Permit Authorization for Sewage Sludge Disposal
<i>3</i> C(-tion	(Instructions Page 60)
A. I	Benefi	cial use authorization
(u requesting to include authorization to land apply sewage sludge for beneficial use perty located adjacent to the wastewater treatment facility under the wastewater ?
		Yes ⊠ No
		attach the completed Application for Permit for Beneficial Land Use of Sewage (TCEQ Form No. 10451): Click to enter text.
В. 9	Sludge	processing authorization
		y the sludge processing, storage or disposal options that will be conducted at the vater treatment facility:
		Sludge Composting
		Marketing and Distribution of sludge
		Sludge Surface Disposal or Sludge Monofill
1	Wastev	of the above, sludge options are selected, attach the completed Domestic vater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. : Click to enter text.
Sec	tion	7. Sewage Sludge Solids Management Plan (Instructions Page

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

Attach a solids management plan to the application.

Attachment: TECH.04

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 I	Orinking Wate	r 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</u> to enter text.
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.

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. **Description of Immediate Receiving Waters (Instructions** Section 4. Page 65) Name of the immediate receiving waters: Drainage ditch on property 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: Click to enter text. Man-made Channel or Ditch \boxtimes Open Bay Tidal Stream, Bayou, or Marsh Other, specify: Click to enter text. 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 \boxtimes Personal observation Other, specify: Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

	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.	Down	stream characteristics							
		receiving water characterist rge (e.g., natural or man-mad	_	vithin three miles downstream of the nds, reservoirs, etc.)?					
		Yes ⊠ No							
	If yes,	discuss how.							
	Click	o enter text.							
Е.	Norma	ıl dry weather characteristic	'S						
		•		during normal dry weather conditions.					
		is normally dry during dry weat							
	Date a	nd time of observation: <u>8/5/2</u>	2024 @ 00:1	5					
		e water body influenced by s							
		Yes ⊠ No	MOTHIWATEL .	tailoir aaring oboti vations.					
		TC3 Z NO							
Se	ction		ristics of	the Waterbody (Instructions					
		Page 66)							
A.	Upstre	am influences							
		mmediate receiving water up iced by any of the following?		he discharge or proposed discharge site nat apply.					
		Oil field activities	\boxtimes	Urban runoff					
		Upstream discharges	\boxtimes	Agricultural runoff					
		Septic tanks		Other(s), specify: Click to enter text.					

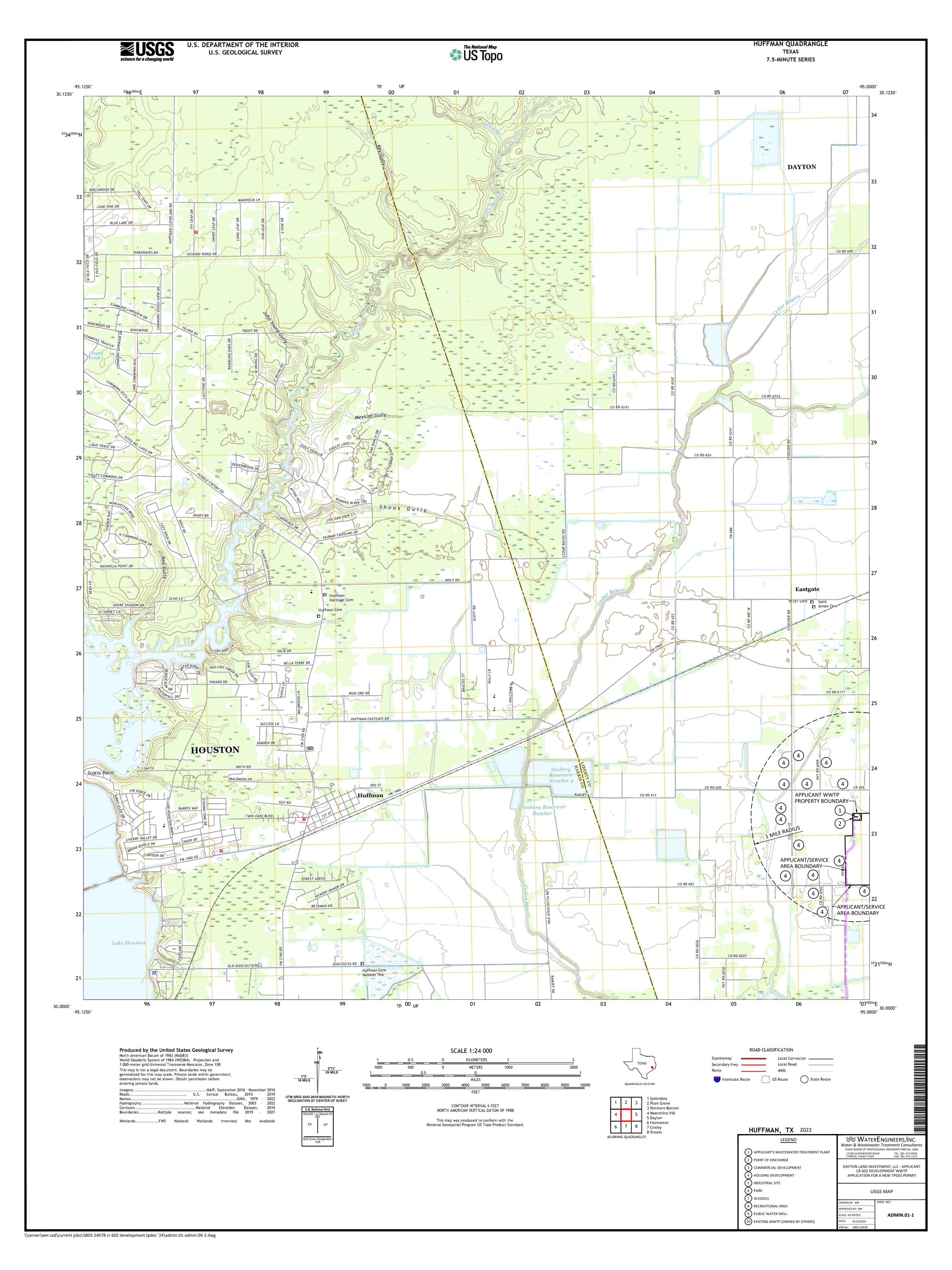
C. Downstream perennial confluences

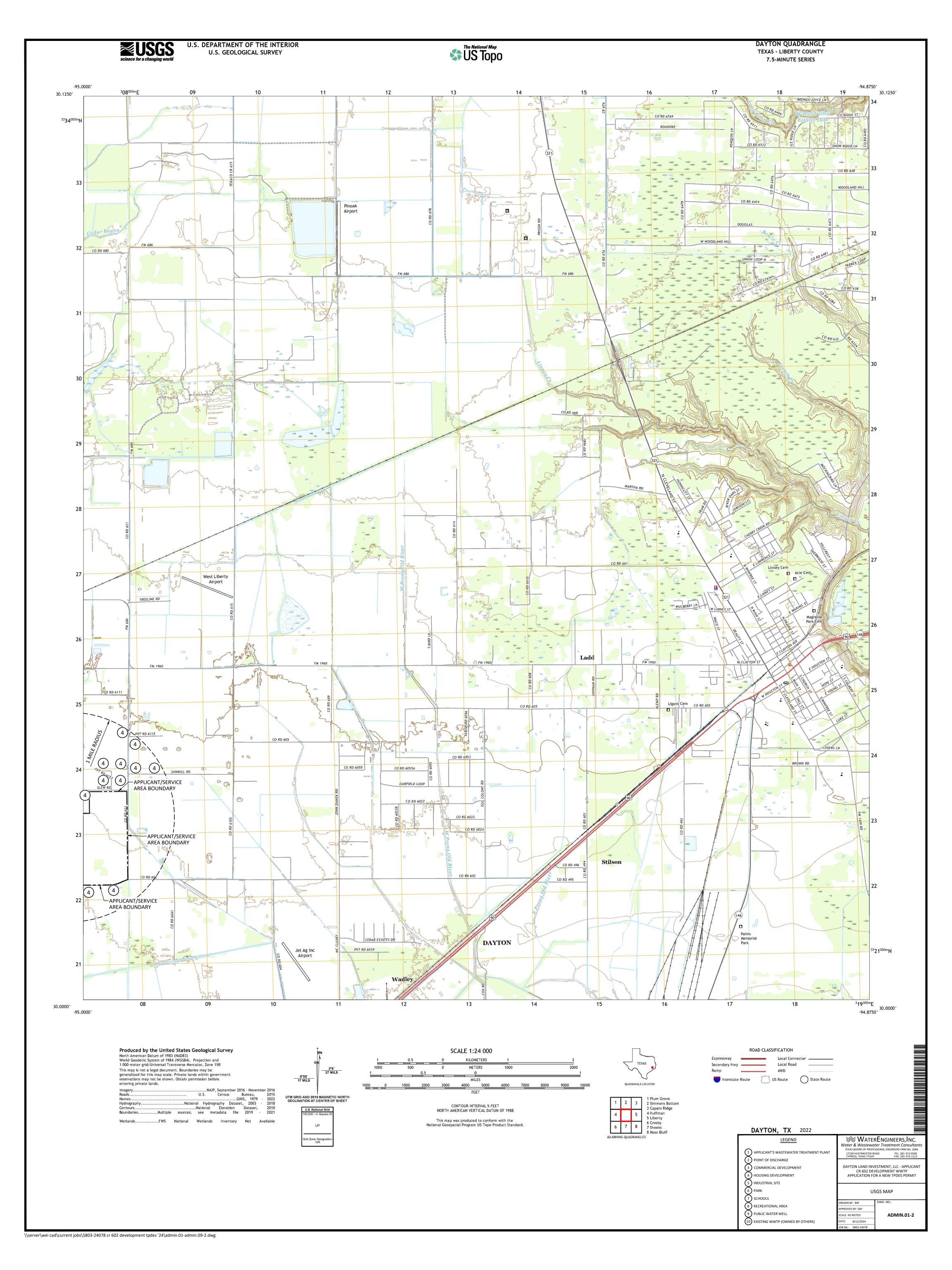
VV a	aterr	oay uses							
Ob	Observed or evidences of the following uses. Check all that apply.								
		Livestock watering		Contact recreation					
		Irrigation withdrawal		Non-contact recreation					
		Fishing		Navigation					
		Domestic water supply		Industrial water supply					
		Park activities	\boxtimes	Other(s), specify: unknown					
Wa	aterb	oody aesthetics							
		one of the following that best descri rounding area.	bes 1	the aesthetics of the receiving water and					
		Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional							
	\boxtimes	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								

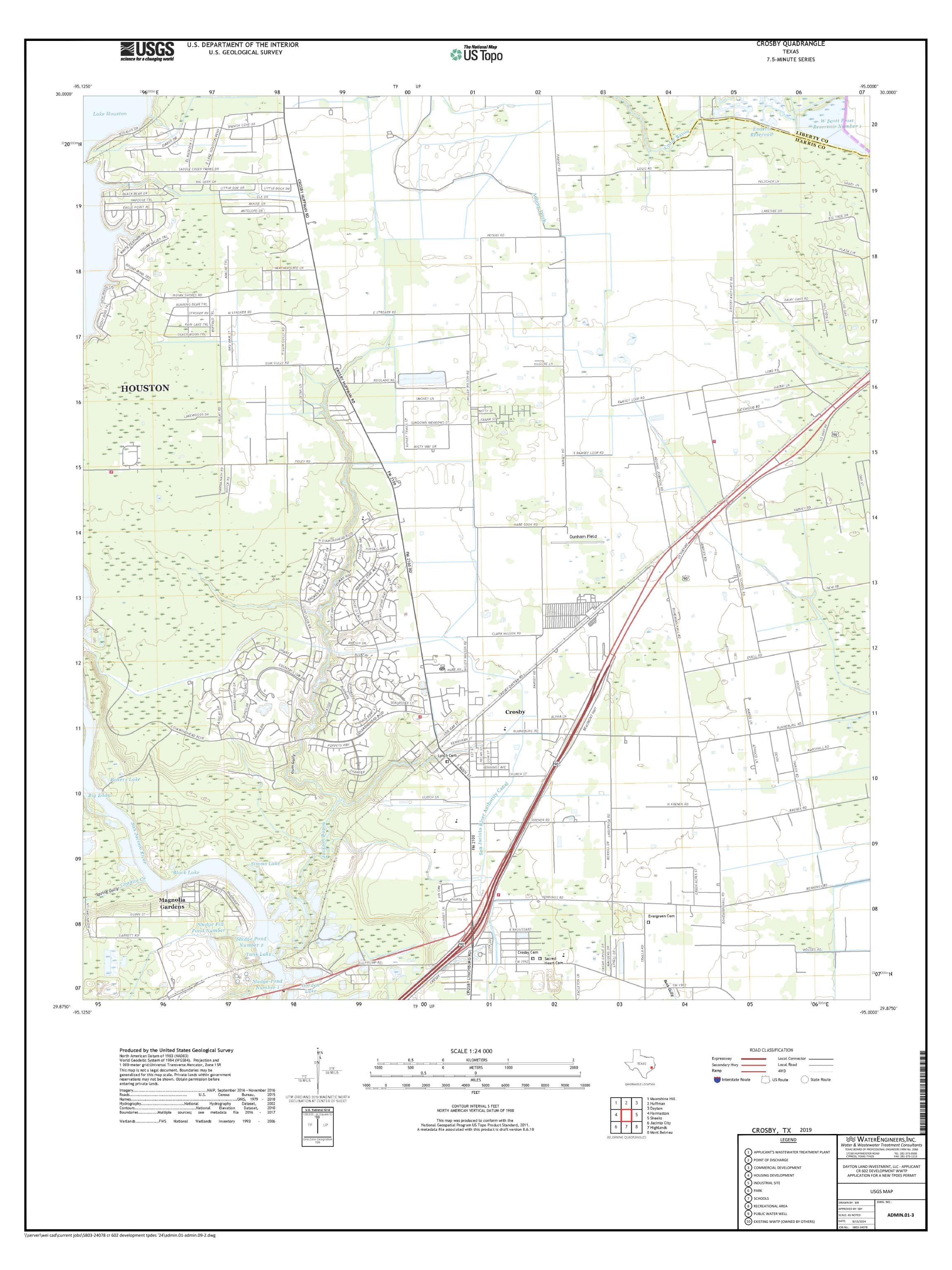
C.

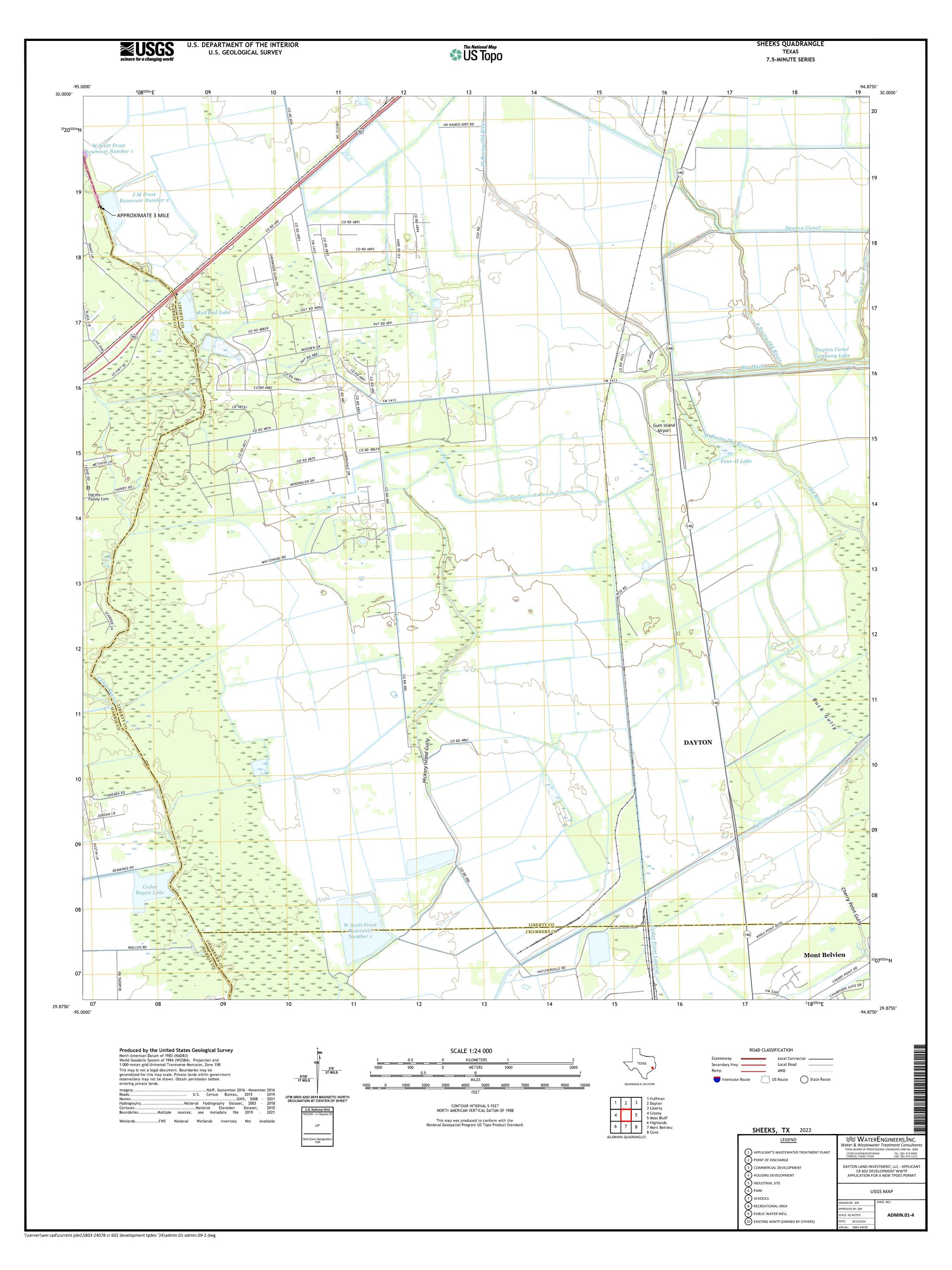
USGS Topographic Map

(Reference Administrative Report 1.0, Page 10, Question 13)









Proof of Payment

(Reference Administrative Report 1.0, Page 10, Question 13)

Core Data Form

(Reference Administrative Report 1.0, Page 4, Section 3C)



TCEQ Core Data Form

TCEQ Use Only

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

<u>SECTION I: General l</u>	<u>lnformation</u>
-----------------------------	--------------------

	1. 001	terar intern	1441011									
		sion (If other is	· ·				•					
					_			_		program application	n.)	
Renewal (Core Data Form should be submitted with the renewal form) Other Customer Reference Number (if issued) Sollow this link to search 3. Regulated Entity Reference Number (if issued)												
Z. Customer	Follow this link to search for CN or RN numbers in		3. K	egulate	ed Entity Referen	ce Number	(IT ISSUED)					
CN						Registry						
ECTION	II: Cu	stomer Info	rmation									
4. General C	ustomer	Information	5. Effective	Date for	or Cu	stomer	r Infori	matior	Updat	es (mm/dd/yyyy)		
New Cust □ Change in		me (Verifiable wi		Update ecretar					troller o	Change in	•	Entity Ownership
												active with the
		f State (SOS)	•	•				•				
6. Customer	Legal Na	me (If an individua	l, print last name	e first: e	g: Doe	, John)		<u>If</u>	new Cu	stomer, enter previ	ious Custom	er below:
Dayton La	ınd Inv	estment, LLC	1									
7. TX SOS/CI	PA Filing	Number	8. TX State	Tax ID	(11 digi	ts)		9.	Feder	al Tax ID (9 digits)	10. DUN	S Number (if applicable)
08055624	77		32095219	9435								
11. Type of C	ustomer	: Corporati	on			Individ	ual		Pa	rtnership: 🔲 Gene	ral Limited	
Government:	☐ City ☐	County Federal [☐ State ☐ Other			Sole P	ropriet	orship		Other: limited li	ability con	npany
12. Number o	of Employ 21-100	/ees 101-250	<u> 251-500</u>		501 a	nd high	ner	1:	3. Inder	pendently Owned	and Opera	ited?
14. Custome	r Role (Pi	oposed or Actual) -	as it relates to	the Reg	ulated	Entity li	isted or	this fo	rm. Plea	se check one of the	following:	
Owner		☐ Opera	tor			wner &	Opera	ator				
Occupation	nal Licens	see Respo	nsible Party						plicant	Other:		
	1401 V	Woodlands Pa	arkway									
15. Mailing												
Address:	City	The Woodla	ands	St	ate	TX		ZIP	773	80	ZIP + 4	
16. Country M	Mailing Ir	formation (if outs	de USA)	!:			17. E	-Mail /	Addres	S (if applicable)		
		·								norellicompa	nv.com	
18. Telephon	e Numbe	r		19. Ex	tensi	on or C				20. Fax Numbe		ble)
(713)45	2-1717									()	-	
ECTION	III: R	egulated En	tity Infor	mati	on							
					_	v" is se	elected	below	this for	m should be acco	mpanied hv	a permit application)
New Regu	-	-	to Regulated E	_						Entity Information		= p s approacion)
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal												
_		ndings such	•									
22. Regulated	Entity N	ame (Enter name	of the site where	e the reg	gulated	action i	is taking	g place.)			
CR 602 De	velopn	nent Wastewa	iter Treatm	ent P	lant							

TCEQ-10400 (04/15) Page 1 of 3

23. Street Address of the Regulated Entity:												
(No PO Boxes)	City	Dayton		State	TX	ZIP	77:	535	ZIP	+ 4		
24. County	Liberty											
	Ent	er Physical L	ocatio	n Description	on if no	street addre	ss is prov	ided.				
	Approxi Road 61	•	75 fee	et southw	est of	the interse	ection o	f County	Road (505 a	and County	
26. Nearest City							State	•		Nea	rest ZIP Code	
Dayton						TX				77535		
27. Latitude (N) In Decima	l:	30.025394	025394			28. Longitud	le (W)	n Decimal:	-95.0	-95.002114		
Degrees M	finutes		Second	ds		Degrees		Minutes			Seconds	
30	01 31.42				-95		00 07.61					
29. Primary SIC Code (4 digits	29. Primary SIC Code (4 digits) 30. Secondary SIC			Code (4 digits) 31. Prima (5 or 6 digits)			mary NAICS Code 32.			. Secondary NAICS Code or 6 digits)		
6552	552			237210								
33. What is the Primary Bus	iness of t	his entity?	(Do not re	epeat the SIC	or NAICS o	description.)						
developing land												
	1401 Woodlands Parkway											
34. Mailing												
Address: City		The Woodlands		State T		X ZIP		77380		ZIP + 4		
35. E-Mail Address:				r	robinso	n@signorell	icompany	.com			hii	
36. Telephone	Number			37. Extens	ion or C	ode	3	8. Fax Num	ber <i>(if a</i>	pplica	ble)	
(713) 452-1717							() .		
39. TCEQ Programs and ID Nu lform. See the Core Data Form instru	mbers Che	eck all Programs dditional guidan	s and wr	ite in the peri	mits/regis	tration number	s that will b	e affected by	the updat	es sub	mitted on this	
☐ Dam Safety ☐			ΠE	☐ Edwards Aquifer		☐ Emissions Inventor		ory Air	☐ Industrial Hazardous Waste			
☐ Municipal Solid Waste ☐	☐ New Source Review Air			☐ OSSF		☐ Petroleum Storage Tai		e Tank	nk PWS			
Sludge	Storm Water			☐ Title V Air		Tires			Used Oil			
Noluntary Cleanup	Masta Water			Instance A	Mater Bights			□ Other:				
	Waste Water N			/astewater A	☐ Water Rights			Other:				
* - #-	ew	7.										
SECTION IV: Prepar	rer Inte	ormation										
O. Name: Shelley Young						41. Title: Consulting Engineer						
		4. Fax Number			45. E-Mail Address							
		281) 373-0500 (281) 373				syoung@waterengineers.com						
(281) 373-0500		(281)	373-111	3	syoung@	ywatere	ngmeers.	com			
	rized S		281)	3/3-111	3	syoung(a	ywatere	ngmeers.	com			

 Name(In Print):
 Shelley Young, P.E.
 Phone:
 (281) 373-0500

 Signature:
 Shelley Young
 Date:
 8/6/2024

Job Title:

Engineer

Company:

WaterEngineers, Inc.

Plain Language Summary

(Reference Administrative Report 1.0, Page 7, Section 8F)

TCEQ

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

Dayton Land Investment, LLC (CN New) proposes to operate the CR 602 Development Wastewater Treatment Plant (RN New), an activated sludge process with nitrification operated in the complete mix mode. The facility will be located at approximately 3,175 feet southwest of the intersection of County Road 605 and County Road 611, in Dayton, Liberty County, Texas 77535. This application for a new application to discharge a daily average flow of 300,000 gallons per day of treated domestic wastewater..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

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

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

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

Dayton Land Investment, LLC (CN New) propone operar la Planta de Tratamiento de Aguas Residuales de CR 602 Desarrollo (RN New), un proceso de lodos activados con nitrificación operado en el modo de mezcla completa. La instalación estará ubicada en aproximadamente 3175 pies al suroeste de la interseccion de la Carretera del Condado 605 y Carretera del Condado 611, en Dayton, Condado de Liberty, Texas 77535. Esta solicitud es para una nueva aplicación para descargar a un flujo promedio diario de 300,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), solidos totalmente suspendidos (TSS), nitrógeno amoniacal (NHҫ-N), y Escherichia coli. Los contaminantes potenciales adicionales se incluyen en el Informe Técnico Domésticas 1.0, Seccion 7 Análisis de Contaminantes de Efluente Tratado en el paquete de solicitud de permisos.. Las aguas residuales domésticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, balsas de aireación, clarificadores finales, digestores de lodos, y cámaras de contacto de cloro. .

Public Involvement Plan

(Reference Administrative Report 1.0, Page 7, Section 8G)

WQ00 New Dayton Land Investment, LLC CR 602 Development WWTP



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, <u>and</u>					
\times Located within any of the following geographical locations:					
 Austin Dallas Fort Worth Houston San Antonio West Texas Texas Panhandle Along the Texas/Mexico Border Other geographical locations should be decided on a case-by-case basis 					
If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.					
Public Involvement Plan not applicable to this application. Provide brief explanation.					
The area affected by this permit action is not environmentally highly sensitive and, to the best of my knowledge, not been part of any other contested permit action.					

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.
language notice is necessary. Flease provide the following information.
(City)
(County)
(Census Tract)
Please indicate which of these three is the level used for gathering the following information.
City County Census Tract
(a) Percent of people over 25 years of age who at least graduated from high school
(b) Per capita income for population near the specified location
(b) Fer capita medite for population hear the specifica focation
(c) Percent of minority population and percent of population by race within the specified location
(d) Percent of Linguistically Isolated Households by language within the specified location
(e) Languages commonly spoken in area by percentage
(f) Community and/or Stakeholder Groups
(c) community and, or clared croups
(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?
Yes No
(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?
Yes No
If Yes, please describe.
If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required. (c) Will you provide notice of this application in alternative languages?
Yes No
Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.
If yes, how will you provide notice in alternative languages?
Publish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)
(d) Is there an opportunity for some type of public meeting, including after notice?
Yes No
(e) If a public meeting is held, will a translator be provided if requested?
Yes No
(f) Hard copies of the application will be available at the following (check all that apply):
TCEQ Regional Office TCEQ Central Office
Public Place (specify)
Section 7. Voluntary Submittal
For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.
Will you provide notice of this application, including notice in alternative languages? Yes No What types of notice will be provided?
What types of notice will be provided?
Publish in alternative language newspaper
Posted on Commissioner's Integrated Database Website
Mailed by TCEQ's Office of the Chief Clerk
Other (specify)

ATTACHMENT ADMIN.06 Affected Landowners Map and Table

(Reference Administrative Report 1.1, Page 12, Section 1A&B)

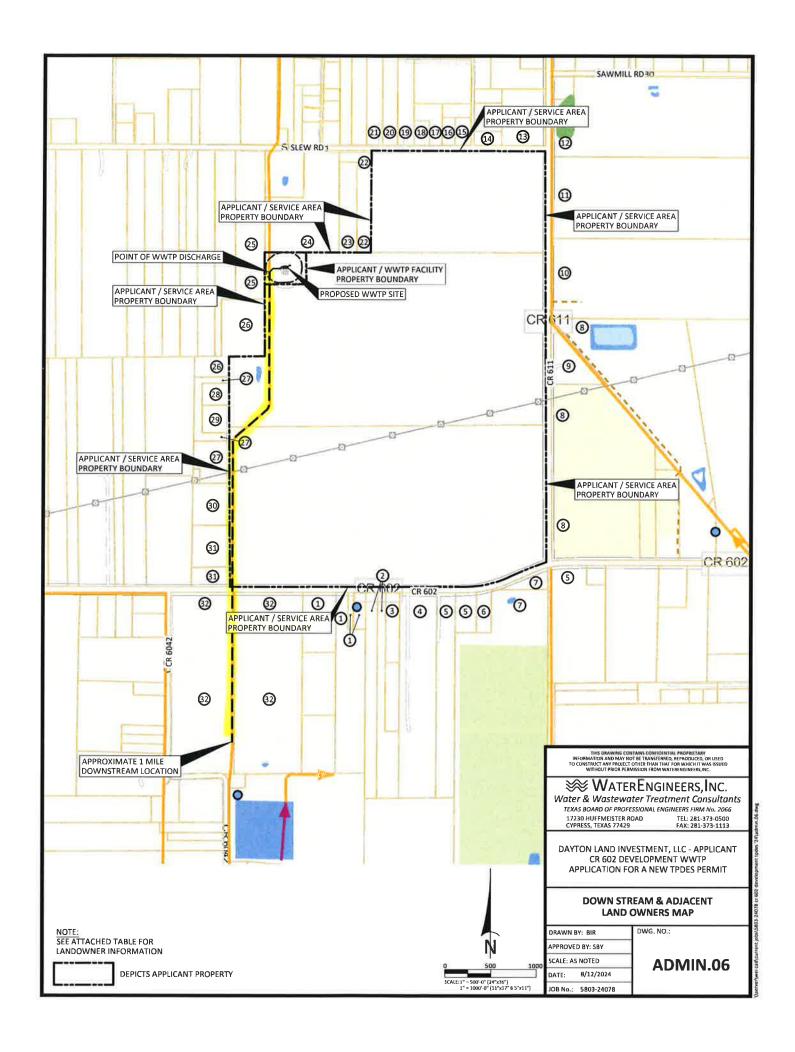


TABLE "ADMIN.06"

Dayton Land Investment LLC CR 602 Development Wastewater Treatment Plant

Adjacent & Downstream Land Ownership Table

Source: Liberty County Appraisal District

Tract No.	Title Owner & Address
(See Attachment "ADMIN.04" Map)	
	THOMAS VYORAL
1	14006 WOODFOREST
	HOUSTON TX 77015
	WILLIAM F HOHN REVOCABLE TRUST
2	3927 COUNTY ROAD 602
	DAYTON TX 77535
	PATRICIA FIELDER
3	4241 COUNTY ROAD 602
	DAYTON TX 77535
	BETTY JANE WILLIAMSON
4	7 SKYLARK STREET
	DAYTON TX 77535
	LEONARD & DIANNE VYORAL
5	4061 COUNTY ROAD 602
	DAYTON TX 77535
	SCOTT HURTA
6	4045 COUNTY ROAD 602
	DAYTON TX 77535
	JOSEPHINE SVOBODA
7	5215 MAPLE STREET
	CROSBY TX 77532
	PATRICK SKRLA
8	3562 COUNTY ROAD 602
	DAYTON TX 77535
	FRANCISCO & HERMELA FRANCO
9	402 COUNTY ROAD 611
	DAYTON TX 77535
	EVELYN ROSSI
10	601 INNWOOD DRIVE
	GEORGETOWN TX 78628
	TERRY & EDWIN SEFCIK
11	5112 LAKE JACKSON DR
	WACO TX 76710
	MICHAEL & PAT SKRLA
12	3562 COUNTY ROAD 602
	DAYTON TX 77535

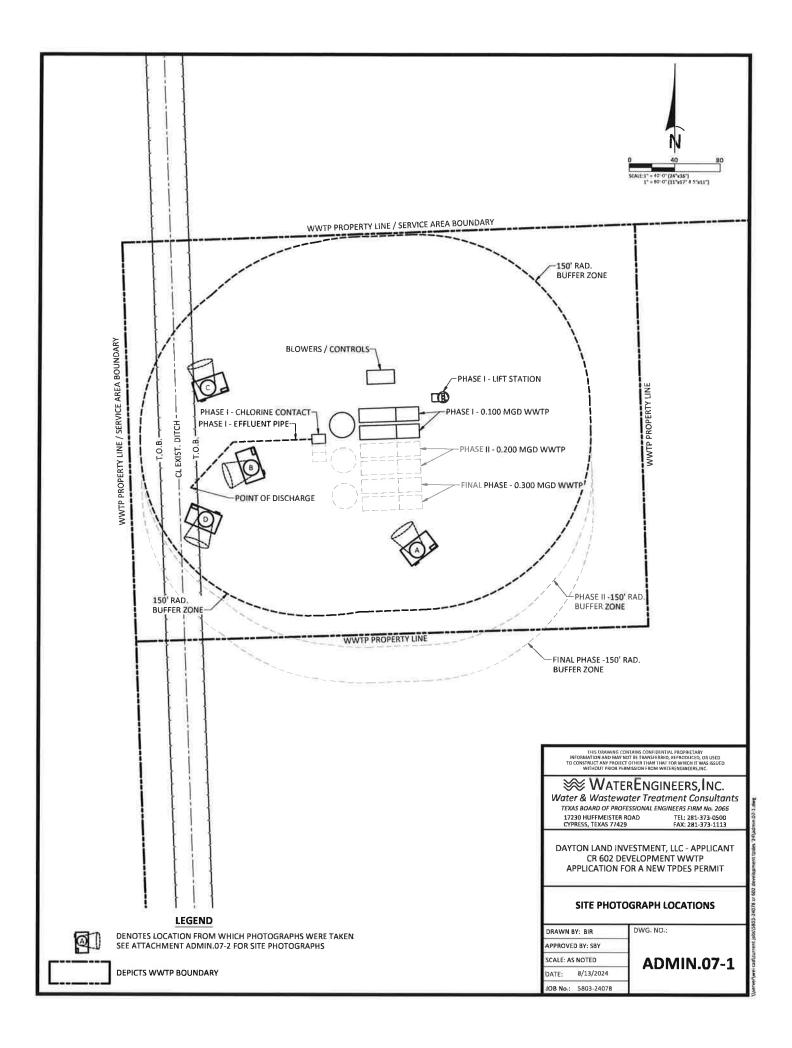
	ADAM & MICHELLE LEDOUX
13	935 COUNTY ROAD 611
	DAYTON TX 77535
	FLOYD & THERESE LEBLANC
14	6854 COUNTY ROAD 605
	DAYTON TX 77535
	TOMMY & PAMELA BELCHER
15	6924 COUNTY ROAD 605
	DAYTON TX 77535
	CINDY CHURTZ
16	6950 COUNTY ROAD 605
	DAYTON TX 77535
	MARIA ESCOBAR
17	905 HIGHWAY 322 APT 607
	LAKE JACKSON TX 77566
	SCOTTIE & RENEE MONTET
18	6980 COUNTY ROAD 605
	DAYTON TX 77535
	JUAN & JOSE RAMIREZ
19	7032 COUNTY ROAD 605
	DAYTON TX 77535
	ROSALINDA VELA
20	7062 COUNTY ROAD 605
20	DAYTON TX 77535
	DENNIS STANLEY
21	1544 COUNTY ROAD 2107
21	LIBERTY TX 77575
	OCCIDENTAL CHEMICAL CORP
22	P O BOX 27711
22	HOUSTON TX 77227
	ROY JONES
23	7145 COUNTY ROAD 605
23	DAYTON TX 77535
24	TOMMY SMITH
24	7305 COUNTY ROAD 605
	DAYTON TX 77535
25	LAURENCIO & MARIA ALBARRAN
25	12813 GREEN RIVER DR
	HOUSTON TX 77044
26	ZACH & LAUREN COLVIN
26	550 PRIVATE ROAD 6114
	DAYTON TX 77535
	CLAYTON COLVIN
27	307 PRIVATE ROAD 6114
	DAYTON TX 77535
.=	DAVID HOHN
28	438 PEBBLE DRIVE
	DAYTON TX 77535
	LYNDA HOHN
29	333 PRIVATE ROAD 6114

	DAYTON TX 77535
	LOUIS HOHN JR
30	195 PRIVATE ROAD 6114
	DAYTON TX 77535
	SHERRI ANN COLVIN
31	111 PRIVATE ROAD 6114
	DAYTON TX 77535
	PEPPIE VYORAL
32	4906 BRIDAL WREATH DRIVE
	RICHMOND TX 77406

ATTACHMENT ADMIN.07

Photographs

(Reference Administrative Report 1.1, Page 13, Section 2)



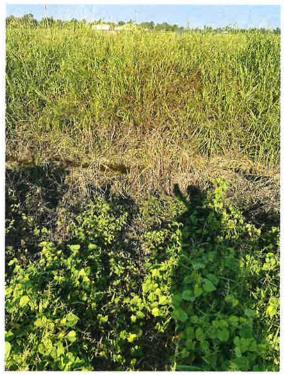
PROPOSED WASTEWATER TREATMENT PLANT SITE





POINT OF DISCHARGE





** SEE ADMIN.07-1 FOR LOCATION IN WHICH PHOTOGRAPHS WERE TAKEN

INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

₩ WATERENGINEERS, INC.

Water & Wastewater Treatment Consultants TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066 17230 HUFFMEISTER ROAD TEL: 281-373-0500 CYPRESS, TEXAS 77429 FAX: 281-373-1113

DAYTON LAND INVESTMENT, LLC - APPLICANT CR 602 DEVELOPMENT WWTP APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DWG. NO.:

DRAWN BY: BIR

APPROVED BY: SBY

SCALE: AS NOTED

DATE: 8/13/2024

JOB No.: 5803-24078

ADMIN.07-2

UPSTREAM OF POINT OF DISCHARGE





DOWNSTREAM OF POINT OF DISCHARGE





INFORMATION AND MAY NOT BE TRANSFERRED, REPRODUCED, OR USED TO CONSTRUCT ANY PROJECT OTHER THAN THAT FOR WHICH IT WAS ISSUED WITHOUT PRIOR PERMISSION FROM WATERENGINEERS, INC.

WATERENGINEERS, INC.

Water & Wastewater Treatment Consultants
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
17230 HUFFMEISTER ROAD TEI: 281-373-0500
CYPRESS, TEXAS 77429 FAX: 281-373-1113

DAYTON LAND INVESTMENT, LLC - APPLICANT CR 602 DEVELOPMENT WWTP APPLICATION FOR A NEW TPDES PERMIT

SITE PHOTOGRAPHS

DRAWN BY: BIR DWG. NO.:
APPROVED BY: SBY
SCALE: AS NOTED

DATE: 8/13/2024

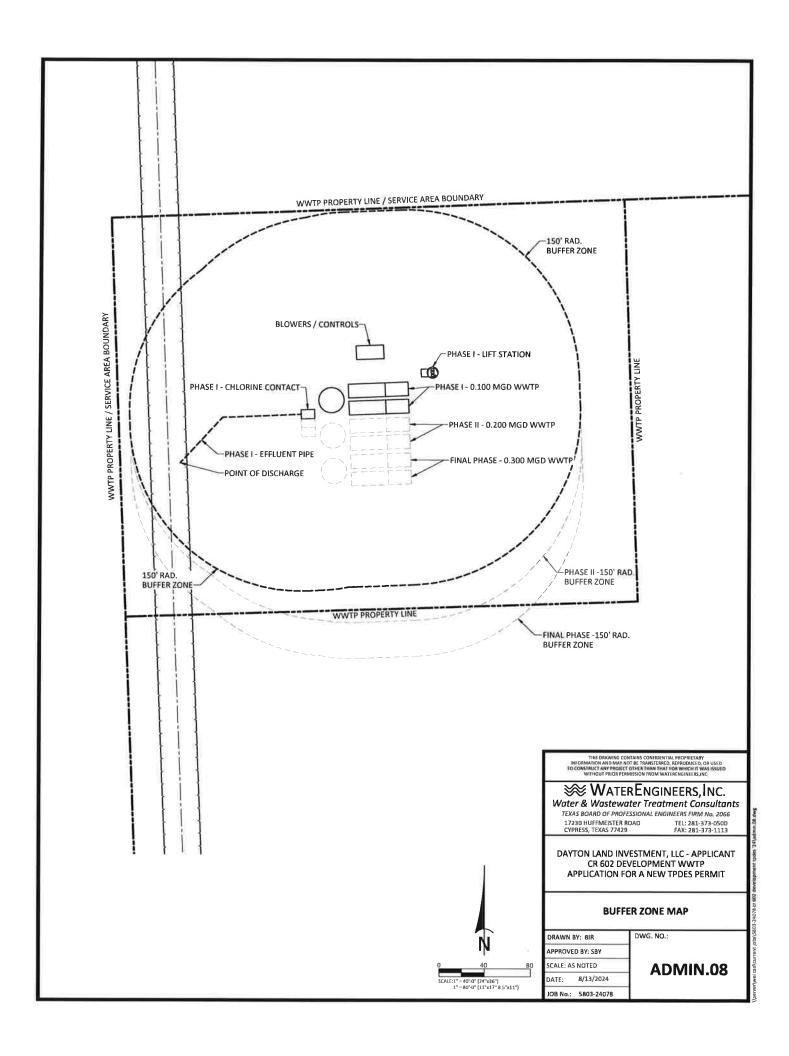
JOB No.: 5803-24078

ADMIN.07-3

ATTACHMENT ADMIN.08

Buffer Zone Map

(Reference Administrative Report 1.1, Page 13, Section 3A)



ATTACHMENT ADMIN.09 Supplemental Permit Information Form and USGS Map

(Reference Administrative Report Page 14)

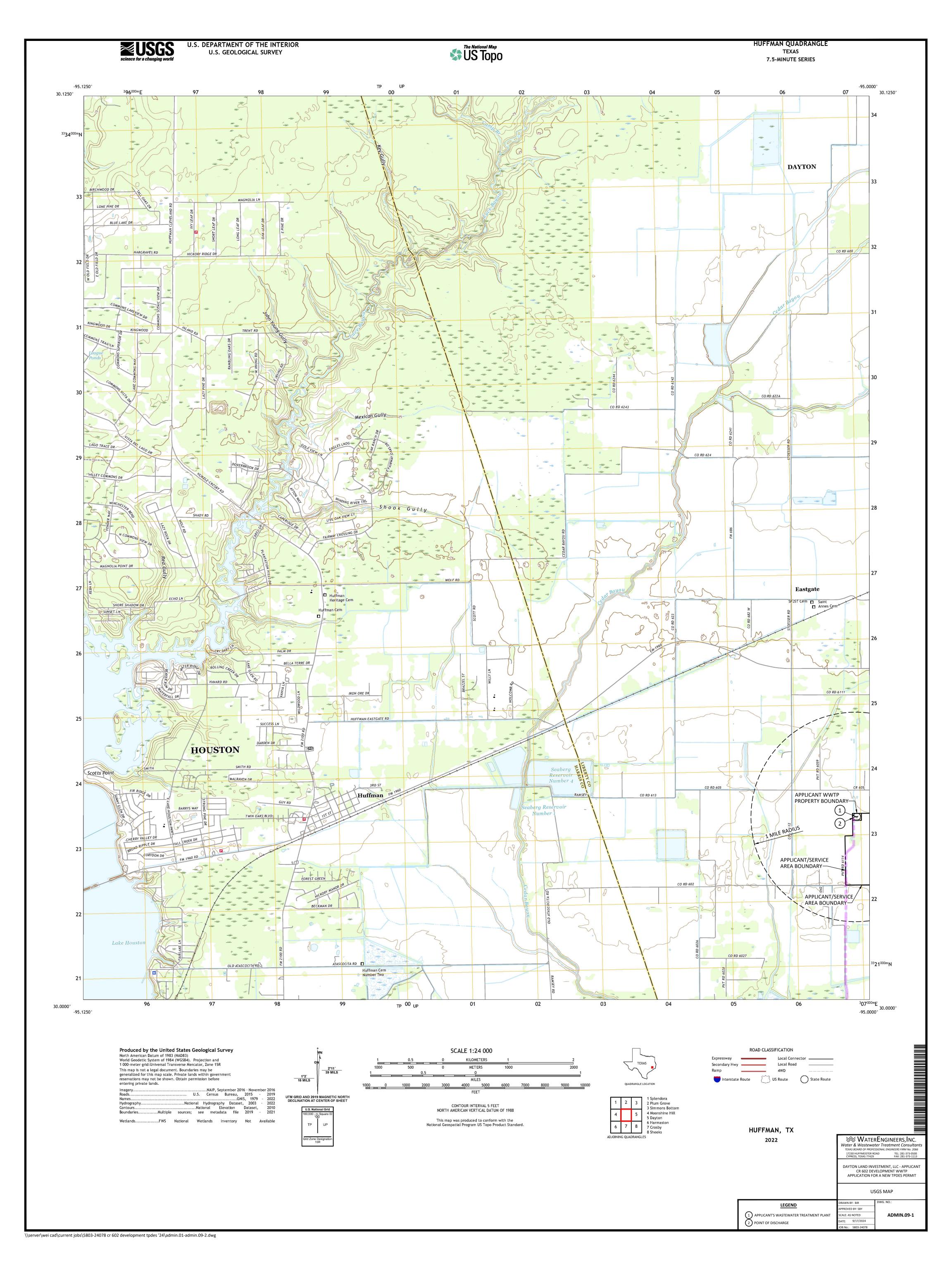
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

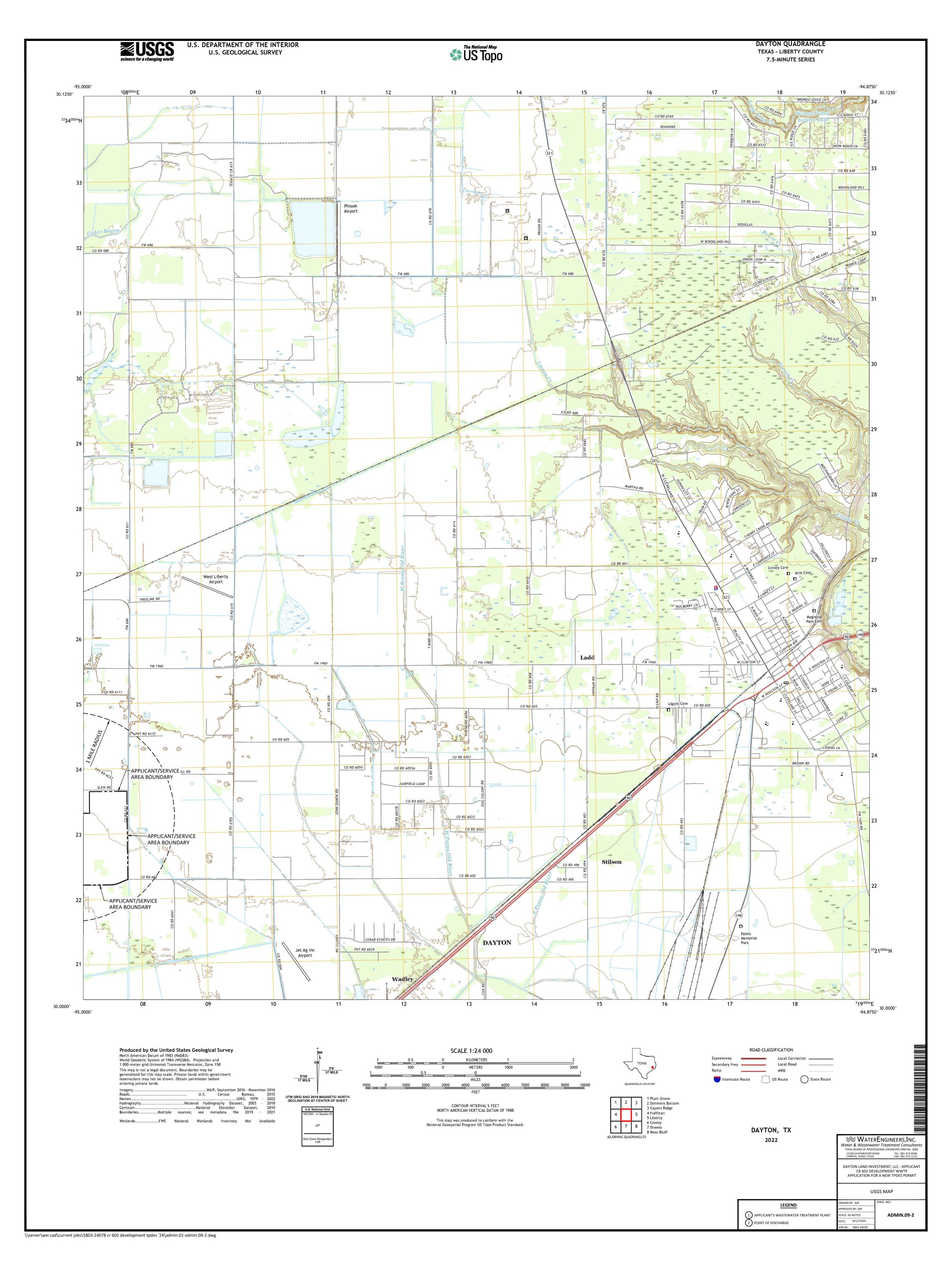
FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

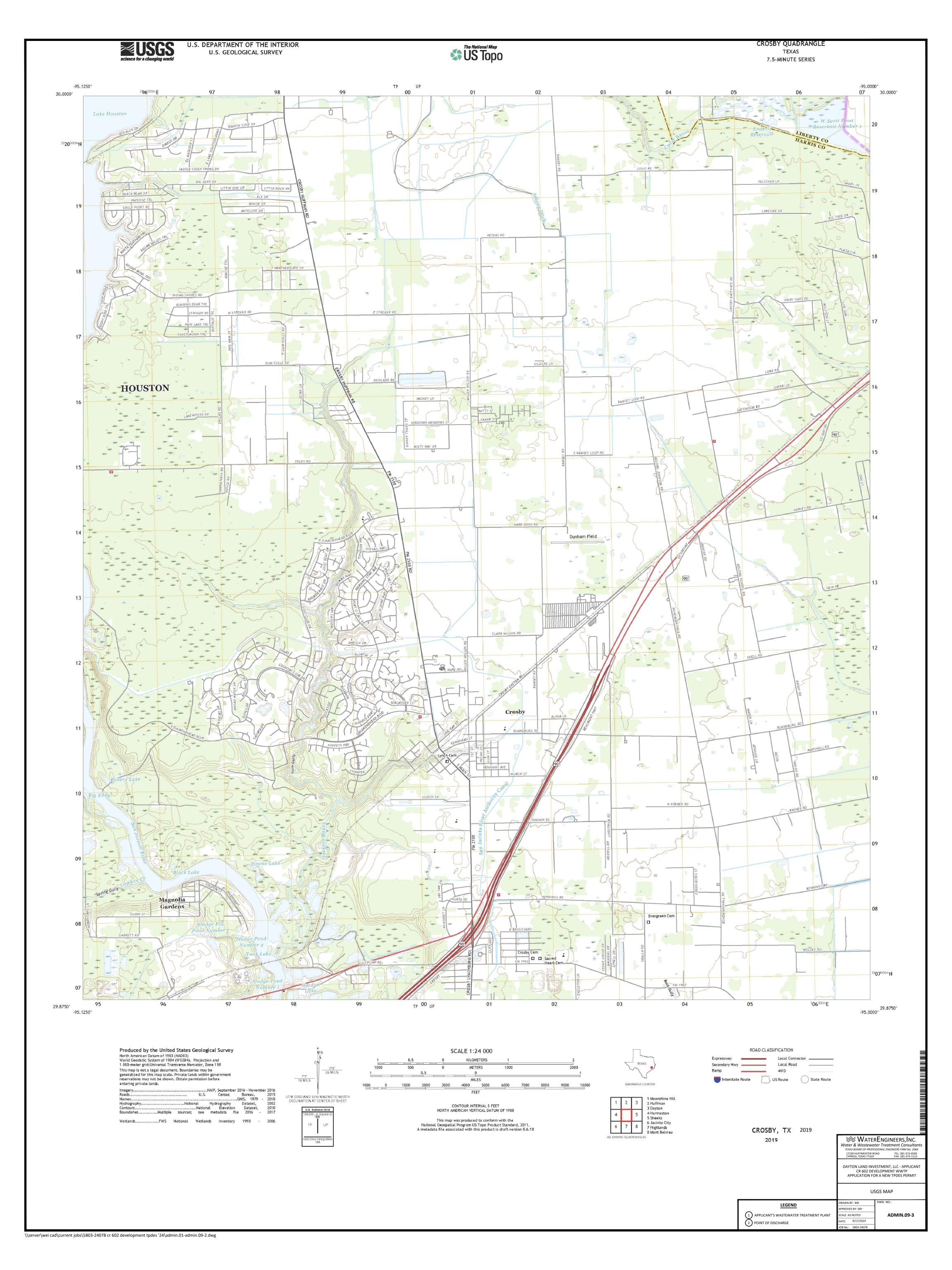
Application type:RenewalMajor AmendmentMinor AmendmentNew County: Segment Number: Admin Complete Date: Agency Receiving SPIF: Texas Historical Commission U.S. Fish and Wildlife Texas Parks and Wildlife Department U.S. Army Corps of Engineers This form applies to TPDES permit applications only. (Instructions, Page 53) Complete this form as a separate document. TCEQ will mail a copy to each agency as requirour agreement with EPA. If any of the items are not completely addressed or further inform 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
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 requirour agreement with EPA. If any of the items are not completely addressed or further inform is needed, we will contact you to provide the information before issuing the permit. Address each item completely.
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 agreement with EPA. If any of the items are not completely addressed or further information before issuing the permit. Address each item completely.
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 agreement with EPA. If any of the items are not completely addressed or further inform its needed, we will contact you to provide the information before issuing the permit. Address each item completely.
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 agreement with EPA. If any of the items are not completely addressed or further inform its needed, we will contact you to provide the information before issuing the permit. Address each item completely.
Complete this form as a separate document. TCEQ will mail a copy to each agency as required bur agreement with EPA. If any of the items are not completely addressed or further inform is needed, we will contact you to provide the information before issuing the permit. Address each item completely.
our agreement with EPA. If any of the items are not completely addressed or further inform 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 may be directed to the Water Quality Division's Application Review and Processing Team by email at WO-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.
The following applies to all applications:
1. Permittee: <u>Dayton Land Investment, LLC</u>
Permit No. WQ00 <u>New</u> EPA ID No. TX <u>New</u>
Address of the project (or a location description that includes street/highway, city/vicing and county): Approximately 3,175 feet southwest of the intersection of County Road 605 and County Road 611 in Liberty County 77535

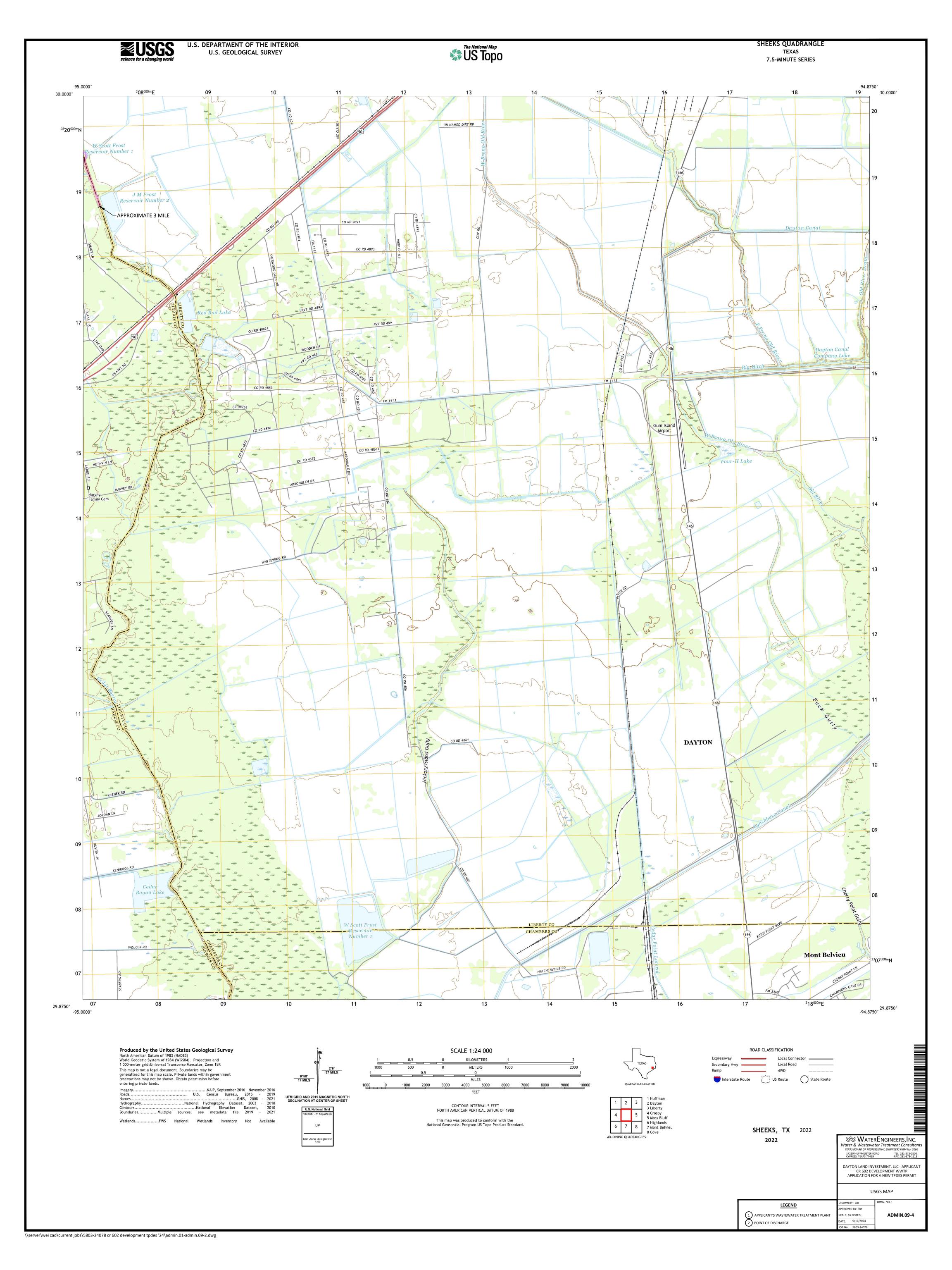
		e the name, address, phone and fax number of an individual that can be contacted to r specific questions about the property.
	Prefix	(Mr., Ms., Miss): <u>Ms.</u>
	First a	nd Last Name: <u>Shelley Young</u>
	Creder	ntial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title: <u>I</u>	Engineer
	Mailing	g Address: <u>17230 Huffmeister Road, Suite A</u>
	City, S	tate, Zip Code: <u>Cypress, TX 77429</u>
	Phone	No.: <u>281-373-0500</u> Ext.: Click here to enter text. Fax No.: <u>281-373-1113</u>
	E-mail	Address: syoung@waterengineers.com
2.	List th	e county in which the facility is located: <u>Liberty</u>
3.	please	property is publicly owned and the owner is different than the permittee/applicant, list the owner of the property.
	N/A	
	Dunnid	
4.		e a description of the effluent discharge route. The discharge route must follow the flow ent from the point of discharge to the nearest major watercourse (from the point of
	dischar	ge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
		ssified segment number.
	From	the plant site to on on-site drainage ditch; thence to Liberty County WCID 1 Drainage thence to Cedar Bayou Above Tidal in Segment No. 0902 of the Trinity San Jacinto
	Coast	al Basin.
5.	plotted route f	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).
	Provide	e original photographs of any structures 50 years or older on the property.
	Does y	our 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
	\boxtimes	Additional phases of development that are planned for the future
		Sealing caves, fractures, sinkholes, other karst features
·OT	20	09 (n1 /nonn)

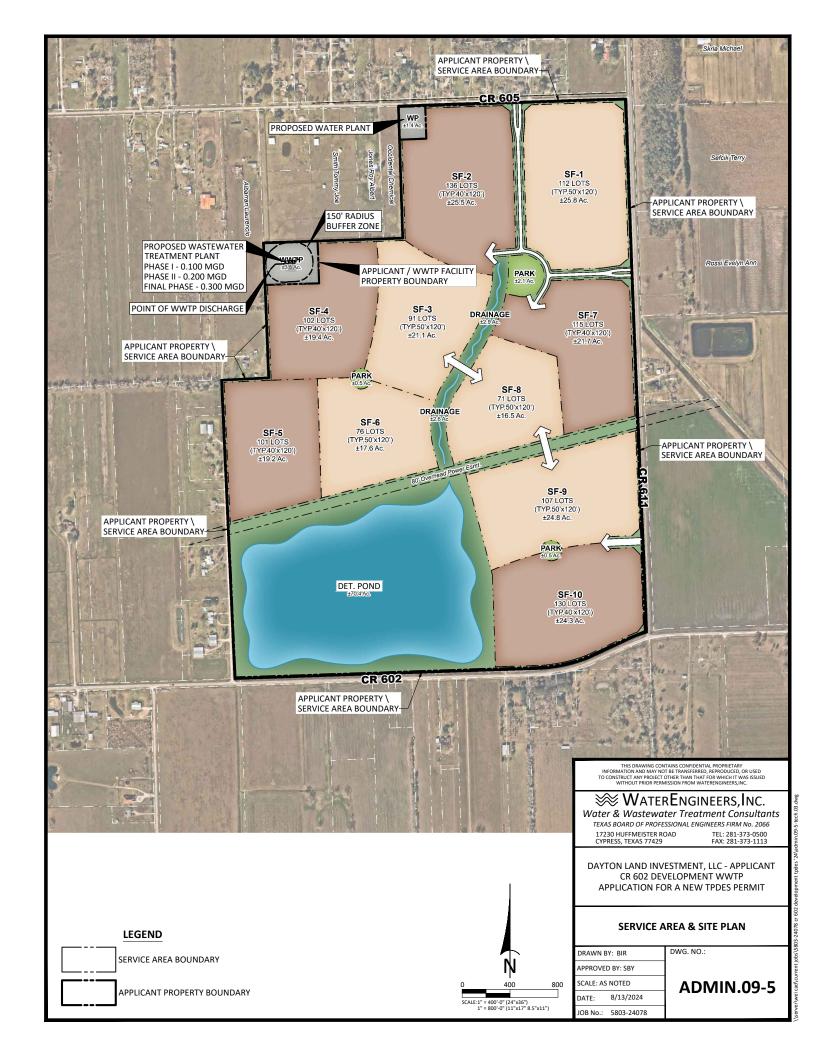
	☐ Disturbance of vegetation or wetlands	
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features): The plant site will encompass approximately 3 acres. Excavation is not expected to be more than 10-12'. Other disturbances will include clearing and grubbing of the site.	
2.	Describe existing disturbances, vegetation, and land use:	
	Land is currently vacant and used for agriculture.	
	E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR ENDMENTS TO TPDES PERMITS	R
3.	List construction dates of all buildings and structures on the property:	
	See No. 2 above	
4.	Provide a brief history of the property, and name of the architect/builder, if known.	
2.	See No. 2 above	











ATTACHMENT TECH.04

Solids Management Plan

(Reference Technical Report Page 23, Question 5B)

ATTACHMENT TECH.04 SLUDGE MANAGEMENT PLAN

1. Type of Wastewater Treatment Process Used

The CR 602 Development Wastewater Treatment Plant (WWTP) will use the activated sludge with nitrification process. Solids analyses have been made based upon a spreadsheet calculation set up using sludge kinetic calculations developed by Dr. Ross McKinney and published in <u>Notes on Activated Sludge</u>, 1971, by Brian L. Goodman. Tables TECH.04-01, TECH.04-02 and TECH.04-03 show the process design and sludge generation calculations for the design flows of 100,000 gpd, 200,000 gpd and 300,000 gpd.

2. Dimensions and Capacities

The Phase I treatment facility will have a digester with a total volume of 5,040 cu. ft., a surface area of 480 sq. ft. and a 10.5 ft. side water depth. The Phase I digester will provide a total design flow loading of 20.1 cu. ft./1b BOD. The Phase II treatment facility will add an identical unit as in Phase I for a total volume of 10,080 cu. ft., surface area of 960 sq. ft. and a 10.5 ft. side water depth. The Phase II digesters will provide a total design flow loading of 20.1 cu. ft./1b BOD. The Phase III treatment facility will add another identical unit for a total volume of 15,120 cu. ft., surface area of 1,440 sq. ft. and a 10.5 ft. side water depth. The Phase III digesters will provide a total design flow loading of 20.1 cu. ft./1b BOD.

3. Sludge Generation Calculations

Sludge generation calculations showing the amount of solids generated at 100%, 75%, 50% and 25% of design flows are included in Attachments TECH.04-01, TECH.04-02 and TECH.04-03. These are the solids that must be wasted from the activated sludge process and that must be stabilized in the aerobic digester. The results are summarized in the following table:

Phase	Solids @ 100% Qavg, lb/day	Solids @ 75% Qavg, lb/day	Solids @ 50% Qavg, lb/day	Solids @ 25% Qavg, lb/day
Phase I	171	128	85	43
Phase II	341	256	171	86
Phase III	512	384	256	128

4. Operating Range of Mixed Liquor Suspended Solids

The calculations that predict the mixed liquor suspended solids in the activated sludge process are located in the following table:

	ı	d Solids % Flow		Predicted Solids @75% Flow		Predicted Solids @50% Flow		d Solids 6 Flow
	sludge age, days	MLSS mg/l	sludge age, days	MLSS mg/l	sludge age, days	MLS S mg/l	sludge age, days	MLSS mg/l
Phase I	10	3,510	13.5	3,556	20	3,514	40	3,516
Phase II	10	3,510	13.5	3,556	20	3,514	40	3,516
Phase III	10	3,510	13.5	3,556	20	3,514	40	3,516

5. Solids Removal Procedures

The removal of waste activated sludge from the activated sludge process is achieved by wasting sludge from the bottom of the clarifier into the aerobic digester using the waste sludge airlift pump. In order to thicken solids prior to putting them into the digester, the air lift is turned off for approximately one hour prior to wasting. Periodically (two to three times a week) the air supply to the aerobic digester is shut off, allowing solids to settle to the bottom of the digester. Then the supernatant liquor is decanted with an adjustable decant airlift pump and returned to the aeration basin. After a sufficient period of digestion and/or the digester is full, sludge is removed from the digester by a vacuum truck by hooking the truck hose to the piping connection and opening the shut off valve.

6. Quantity of Solids to Be Removed and Solids Removal Schedule

The quantity of solids to be removed at the various plant loadings are presented in the following table. These quantities shown in the tabulation are *monthly* quantities based upon an influent BOD of 300 mg/l and TSS of 200 mg/l. If the strength of the influent wastewater varies significantly, solids removal quantities will be different.

		@ 100 % FlowCapacity@ 75 % FlowCapacityCapacityCapacity		$\overline{}$				
Phase	% Solids	Gal/ % Month Solids		Gal/ Month	% Gal/ Solids Month		% Gal/ Solids Month	
Phase I	2.0	24,350	2.0	18,269	2.0	12,186	2.0	6,096
Phase II	2.0	48,701	2.0	36,538	2.0	24,372	2.0	12,191
Phase III	2.0	73,051	2.0	54,806	2.0	36,558	2.0	18,287

7. Identification of Disposal Site

The disposal of sludge from the WWTP is contracted to sludge management and disposal contractor, Magna-Flow Environmental., who transports liquid sludge from the digester to other wastewater treatment facilities for further processing. Solids documentation is assured by measuring the volume of each sludge withdrawal and measuring the sludge solids concentrations. All required data is included in the annual sludge report to the TCEQ.

ATTACHMENT TECH.04-01 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS

INFLUENT CONDITIONS			
Design Flow Rate, mgd 0.100		Aeration Vol, cu ft	8,064
Infl. BOD, mg/l 300		Clarifier Diameter, ft	22
Infl. TSS, mg/l 200		Clarifier Side Wall Depth, ft	10.50
Infl. VSS, mg/l 160			
		Clarifier Surface Area, sq ft	380
		Clarifier Volume, cu ft	3,991
BOD Load, #/1000 cu ft 31.07		Temperature, deg C	20
Actual Plant Loading, %	100%	75.0% 50%	25.0%
Actual Flow Rate, mgd	0.100	0.075 0.050	0.025
BOD Loading, #/Day	250	188 125	63
Ret. Sludge Rate, gpd/sq ft	400	400 400	400
Ret. Sludge Flow, mgd	0.15	0.15 0.15	0.15
t = Aeration Time, days	0.603	0.804 1.206	2.413
ts = Sludge Age, Days	10.0	13.5 20.0	40.0
Km = BOD Removal Metabolic Factor	360	360 360	360
Ks = Synthesis Factor	250	250 250	250
Ke = Endogenous Metabolism Factor	0.24	0.18 0.12	0.06
F = Effl Soluble BOD	1.38	1.03 0.69	0.34
Ma = Active Mass	1,011	1,025 1,014	1,015
Me = Endogenous Mass	582	590 584	584
Mi = Inert Organic Mass	928	940 928	928
Mii = Inert Inorganic Mass	988	1,001 989	989
Mt = Total Mass, mg/l	3,510	3,556 3,514	3,516
Total Mass in Aeration Basin, lb	1,766	1,789 1,768	1,769
Lb BOD/Lb MLSS/Day	0.142	0.105 0.071	0.035
Effl TSS, mg/l	7	7 7	7
Effl BOD, mg/l	3	2 2	2
Sludge Accumulation, lb/day	177	133 88	44
TSS Lost In Effluent, lb/day	6	4 3	1
Waste Sludge, lb/day	171	128 85	43
Return Sludge Conc, mg/l	5,819	5,310 4,670	4,095
Waste Sludge Conc, mg/l	10,000	10,000 10,000	10,000
Waste Sludge Flow, gpd	2,047	1,536 1,025	513
AEROBIC DIGESTER			
Volume, cu ft	5,040		
Design Loading, cu ft/lb BOD	20.14	26.86 40.29	80.58
	10.000	10,000 10,000	10,000
	20,000	20,000 20,000	20,000
Detention, Days	36.83	49.10 73.58	147.07
Infl Total Solids, Ib/day	171	128 85	43
Infl Active Mass, lb/day	49	37 25	12
Effl Active Mass, lb/Day	5	4 3	1
Active Mass Red., lb/day	35	26 18	9
Digester Effl Solids, lb/day	135	102 68	34
Sludge Disposed, lb/mg	1,354	1,354 1,355	1,356
Sludge Disposed, tons/mg	0.68	0.68 0.68	0.68
Sludge Hauled, gal/day	812	609 406	203
	24,350	18,269 12,186	6,096
2. San Francisco, garrinoliui	,000	10,200 12,100	0,090

ATTACHMENT TECH.04-02 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS

INFLUENT CONDITIONS			
Design Flow Rate, mgd 0.200)	Aeration Vol, cu ft	16,128
Infl. BOD, mg/l 300		Clarifier Diameter, ft (each)	22
Infl. TSS, mg/l 200		Clarifier Side Wall Depth, ft	10.50
Infl. VSS, mg/l 160		Clarifier Surface Area, sq ft (total)	760
BOD Loading, lb/day 500		Clarifier Volume, cu ft (total)	7,983
BOD Load, #/1000 cu ft 31.07		Temperature, deg C	7,900 20
Bob 2544, #71000 54 ft		remperature, deg O	20
Actual Plant Loading, %	100%	75.0% 50%	25.0%
Actual Flow Rate, mgd	0.200	0.150 0.100	0.050
BOD Loading, #/Day	500	375 250	125
Ret. Sludge Rate, gpd/sq ft	400	400 400	400
Ret. Sludge Flow, mgd	0.30	0.30 0.30	0.30
t = Aeration Time, days	0.603	0.804 1,206	2.413
ts = Sludge Age, Days	10.00	13.5 20.0	40.0
Km = BOD Removal Metabolic Factor	360	360 360	360
Ks = Synthesis Factor	250	250 250	250
Ke = Endogenous Metabolism Factor	0.24	0.18 0.12	0.06
F = Effl Soluble BOD	1.38	1,03 0.69	0.34
Ma = Active Mass	1,011	1,025 1,014	1,015
Me = Endogenous Mass	582	590 584	584
Mi = Inert Organic Mass	928	940 928	928
Mii = Inert Inorganic Mass	988	1,001 989	989
Mt = Total Mass, mg/l	3,510	3,556 3,514	3,516
Total Mass in Aeration Basin, Ib	3,532	3,578 3,536	3,538
Lb BOD/Lb MLSS/Day	0.142	0.105 0.071	0.035
Effl TSS, mg/l	7	7 7	7
Effl BOD, mg/l	3	2 2	2
Sludge Accumulation, lb/day	353	265 177	88
TSS Lost In Effluent, lb/day	12	9 6	3
Waste Sludge, lb/day	341	256 171 5 242 4 272	86
Return Sludge Conc, mg/l	5,819	5,310 4,670	4,095
Waste Sludge Conc, mg/l	10,000	10,000 10,000	10,000
Waste Sludge Flow, gpd	4,094	3,071 2,050	1,025
AEROBIC DIGESTER			
Volume, cu ft	10,080		
Design Loading, cu ft/lb BOD	20.14	26.86 40.29	80.58
Incoming Sludge Conc, mg/l	10,000	10,000 10,000	10,000
Thick Sludge Conc, mg/l	20,000	20,000 20,000	20,000
Detention, Days	36.83	49.10 73.58	147.07
Infl Total Solids, lb/day	341	256 171	86
Infl Active Mass, Ib/day	98	74 49	25
Effl Active Mass, lb/Day	10	8 5	3
Active Mass Red., lb/day	71	53 35	18
Digester Effl Solids, lb/day	271	203 136	68
Sludge Disposed, lb/mg	1,354	1,354 1,355	1,356
Sludge Disposed, tons/mg	0.68	0.68 0.68	0.68
Sludge Hauled, gal/day	1,623	1,218 812	406
Sludge Hauled, gal/month	48,701	36,538 24,372	12,191

ATTACHMENT TECH.04-03 PROCESS DESIGN AND SLUDGE GENERATION CALCULATIONS DESIGN & LOADING CRITERIA ~ COARSE BUBBLE DIFFUSERS

INFLUENT CONDITIONS								
	.300		Aeration	Vol. cu f	t		24,192	
Infl. BOD, mg/l	300		Clarifier E				22	
Infl. TSS, mg/l	200		Clarifier S				10.50	
Infl. VSS, mg/l	160		Clarifier S				1,140	
BOD Loading, lb/day	751		Clarifier V				11,974	
•	31.07		Tempera		• •	,	20	
202 20dd, #/ 1000 dd 11	,1.07		rempera	ture, deg			20	
Actual Plant Loading, %		100%	75.0%		50%		25.0%	
Actual Flow Rate, mgd		0.300	0.225		0.150		0.075	
BOD Loading, #/Day		751	563		375		188	
Ret. Sludge Rate, gpd/sq ft		400	400		400		400	
Ret. Sludge Flow, mgd		0.46	0.46		0.46		0.46	
t = Aeration Time, days		0.603	0.804		1.206		2.413	
ts = Sludge Age, Days		10.0	13.5		20.0		40.0	
Km = BOD Removal Metabolic Fac	ctor	360	360		360		360	
Ks = Synthesis Factor		250	250		250		250	
Ke = Endogenous Metabolism Fac	tor	0.24	0.18		0.12		0.06	
F = Effl Soluble BOD		1.38	1.03		0.69		0.34	
Ma = Active Mass		1,011	1,025		1,014		1,015	
Me = Endogenous Mass		582	590		584		584	
Mi = Inert Organic Mass		928	940		928		928	
Mii = Inert Inorganic Mass		988	1,001		989		989	
Mt = Total Mass, mg/l		3,510	3,556		3,514		3,516	
Total Mass in Aeration Basin, Ib		5,298	5,367		5,304		5,307	
Lb BOD/Lb MLSS/Day		0.142	0.105		0.071		0.035	
Effl TSS, mg/l		7	7		7		7	
Effl BOD, mg/l		3	2		2		2	
Sludge Accumulation, lb/day		530	398		265		133	
TSS Lost In Effluent, lb/day		18	13		9		4	
Waste Sludge, lb/day		512	384		256		128	
Return Sludge Conc, mg/l		5,819	5,310		4,670		4,095	
Waste Sludge Conc, mg/l		10,000	10,000		10,000		10,000	
Waste Sludge Flow, gpd		6,142	4,607		3,074		1,538	
AEROBIC DIGESTER								
Volume, cu ft		15,120						
Design Loading, cu ft/lb BOD		20.14	26.86		40.29		80.58	
Incoming Sludge Conc, mg/l		10,000	10,000		10,000		10,000	
Thick Słudge Conc, mg/l		20,000	20,000		20,000		20,000	
Detention, Days		36.83	49.10	•	73.58		147.07	
Infl Total Solids, lb/day		512	384		256		128	
Infl Active Mass, lb/day		148	111		74		37	
Effl Active Mass, lb/Day		15	11		8		4	
Active Mass Red., lb/day		106	79		53		27	
Digester Effl Solids, lb/day		406	305		203		102	
Sludge Disposed, lb/mg		1,354	1,354		1,355		1,356	
Sludge Disposed, tons/mg		0.68	0.68		0.68		0.68	
Sludge Hauled, gal/day		2,435	1,827		1,219		610	
Sludge Hauled, gal/month		73,051	54,806	Ι:	36,558		18,287	
- · · ·			,		-,		-,	

ATTACHMENT TECH.06

Development Schedule

(Reference Technical Report Page 20, Section 1A)

DAYTON LAND INVESTMENT LLC CR 602 DEVELOPMENT WASTEWATER TREATMENT PLANT WQ00 NEW

DEVELOPMENT SCHEDULE

	NUMBER C	OF ESFC	
YEAR	CONNEC	TIONS	
			GALLONS
	ANNUAL	TOTAL	TO WWTP
End 2026	300	300	75000 1ST 0.100 mgd WWTP constructed by Q2 2026
End 2027	300	600	150000 2nd 0.100 mgd WWTP constructed by Q2 2027
End 2028	250	850	212500 3rd 0.100 mgd WWTP constructed by Q4 2028
End 2029	250	1100	275000

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. <u>ADMIN.03</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: Ms. Last Name, First Name: Young, Shelley

Title: <u>Consulting Engineer</u> Credential: <u>P.E.</u>

Organization Name: WaterEngineers, Inc.

Mailing Address: 17230 Huffmeister Road, Suite A City, State, Zip Code: Cypress, TX 77429

Phone No.: 281-373-0500 E-mail Address: syoung@waterengineers.com

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

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

Organization Name: Click to enter text.

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

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

Check one or both:

Administrative Contact

Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

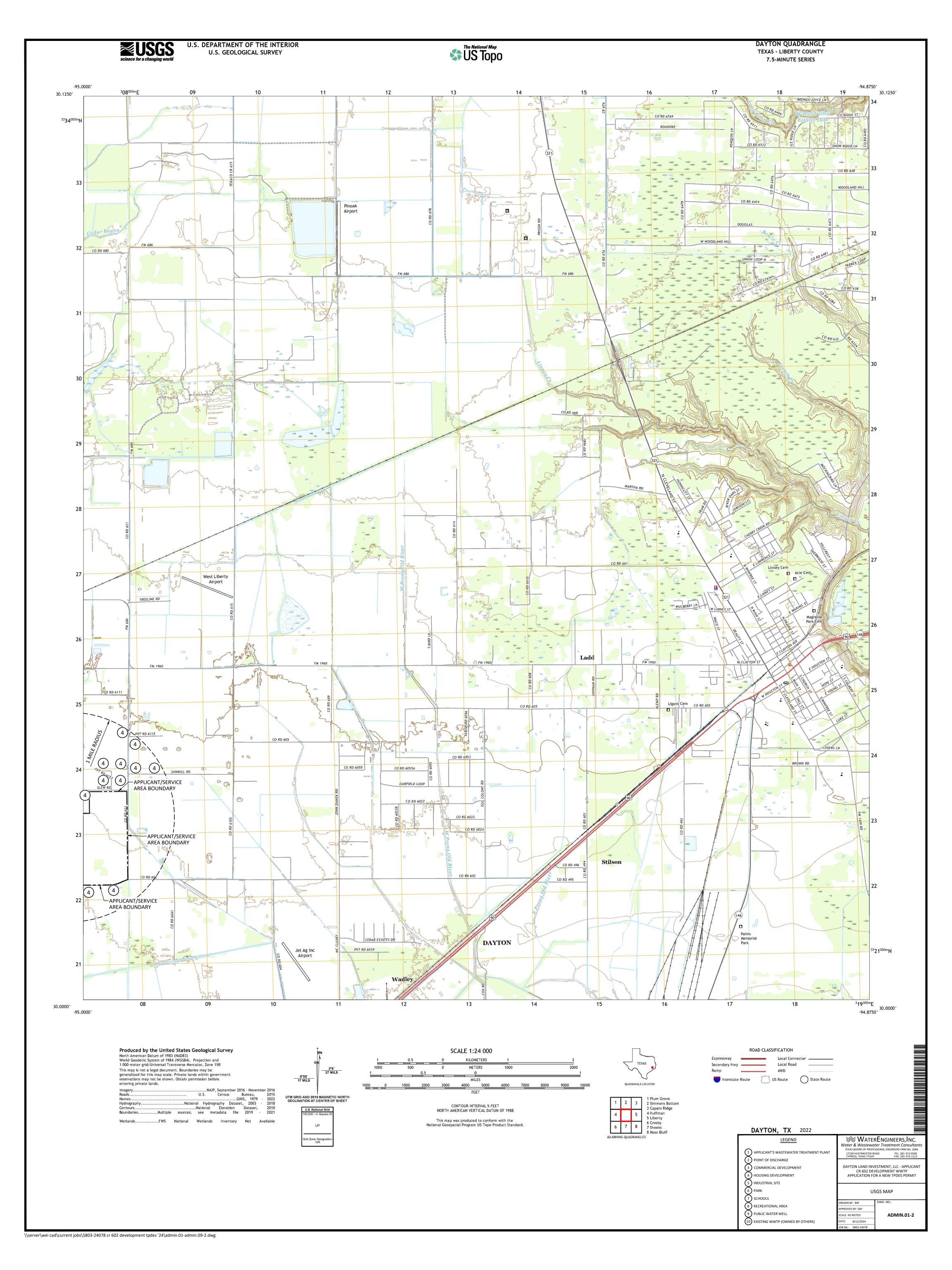
A. Prefix: Mr. Last Name, First Name: Signorelli, Daniel K.

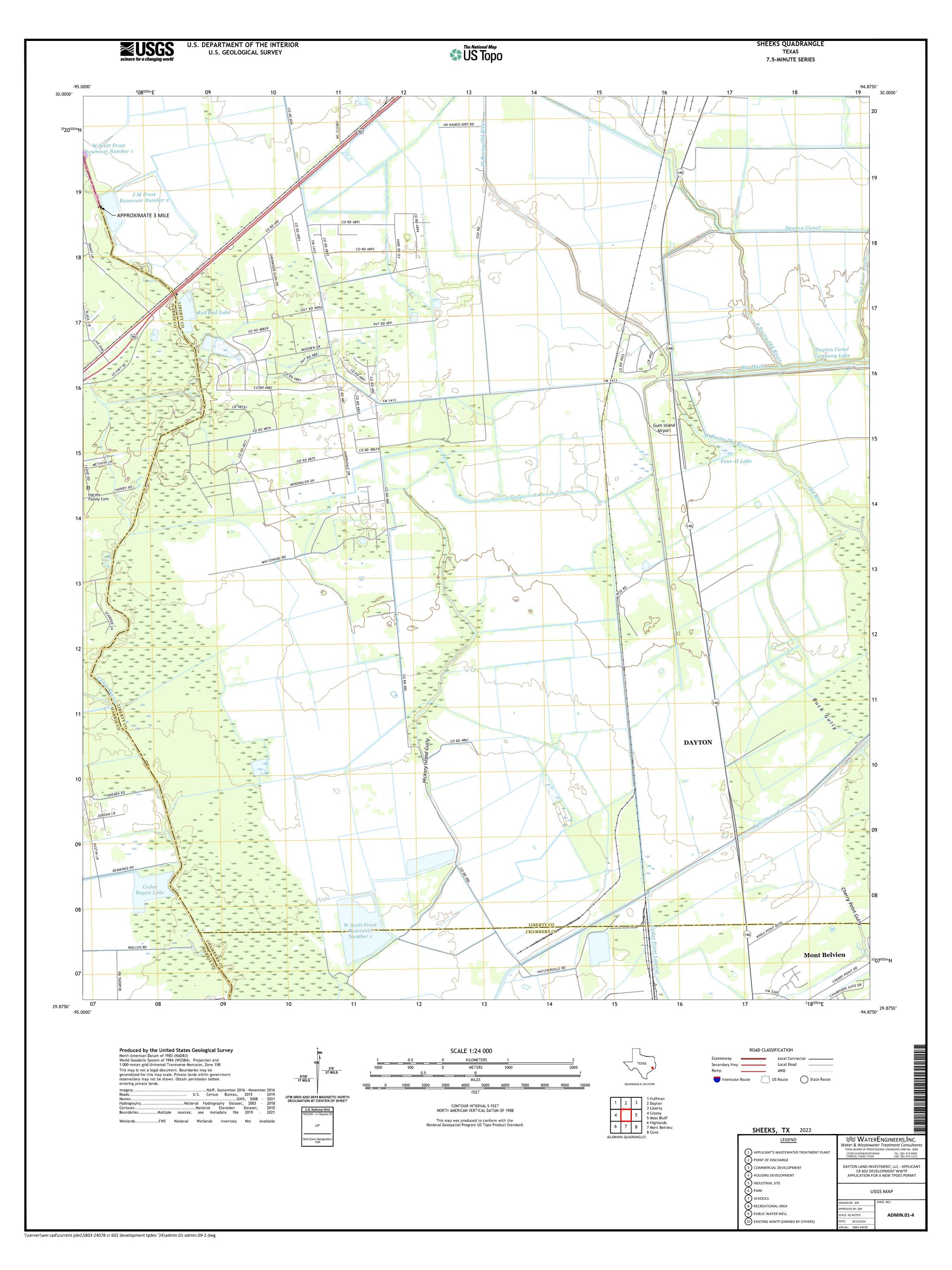
Title: Managing Member Credential: Click to enter text.

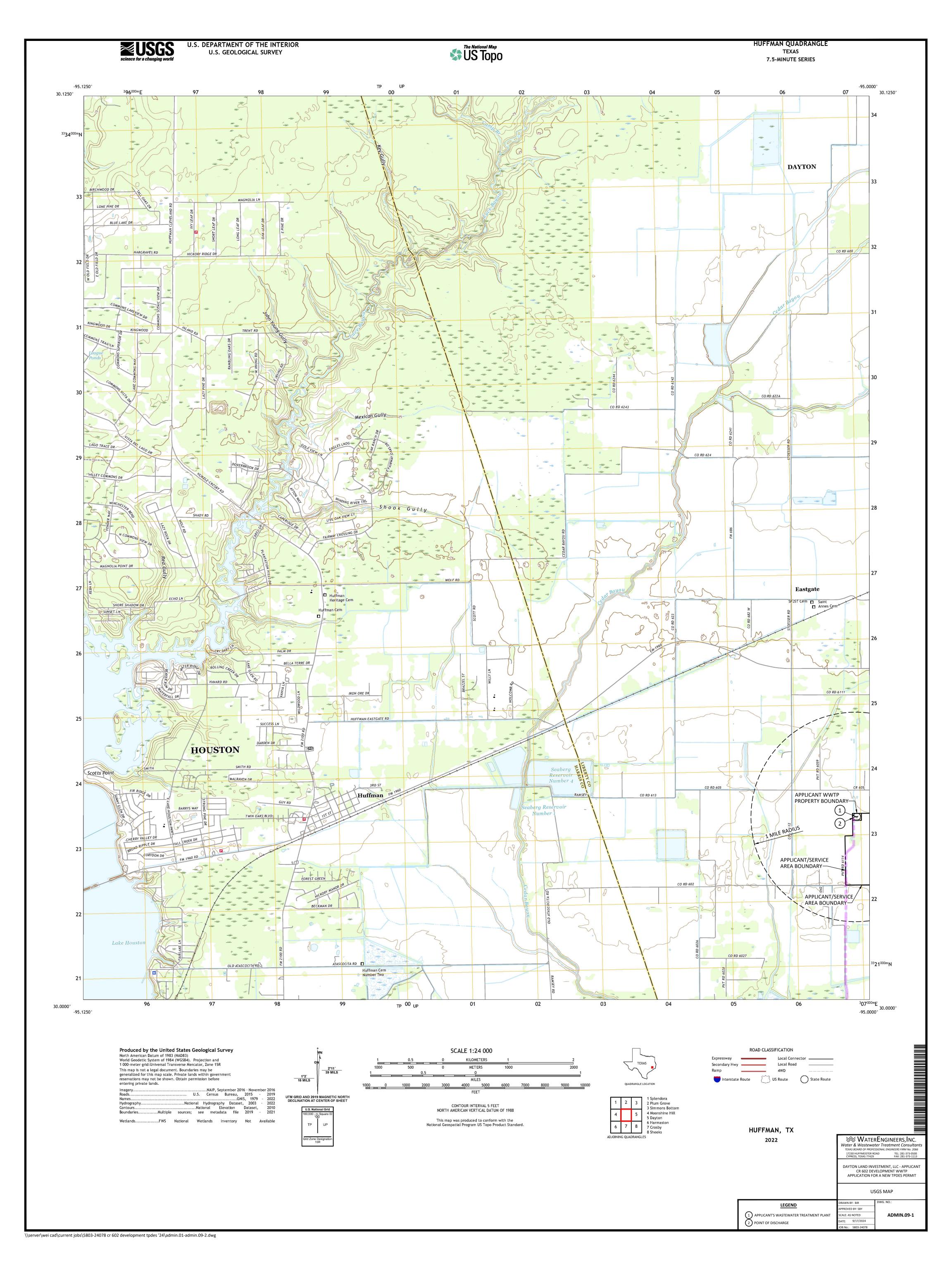
Organization Name: Dayton Land Investment, LLC

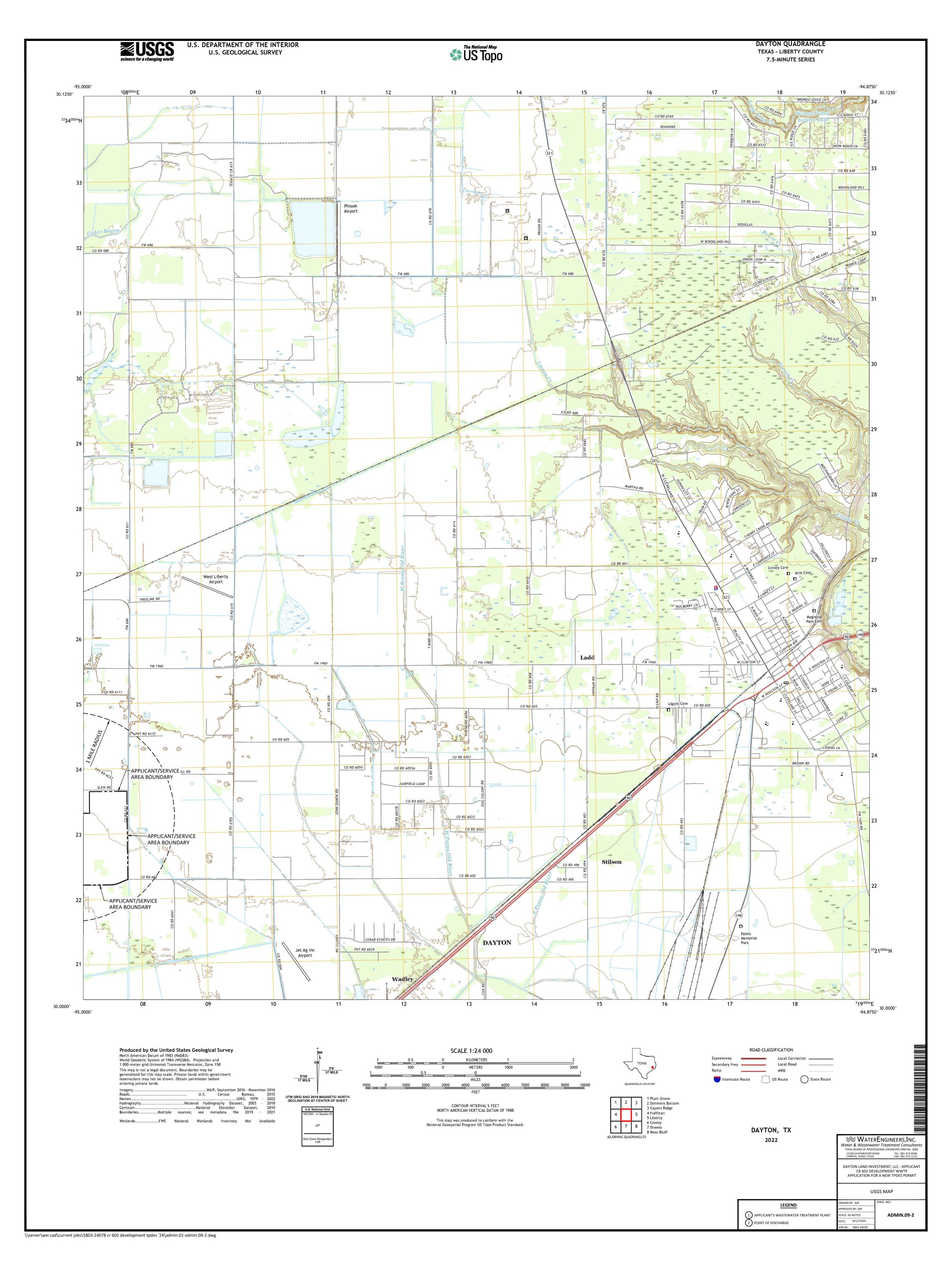
Mailing Address: 1401 Woodlands Parkway City, State, Zip Code: The Woodlands, TX 77380

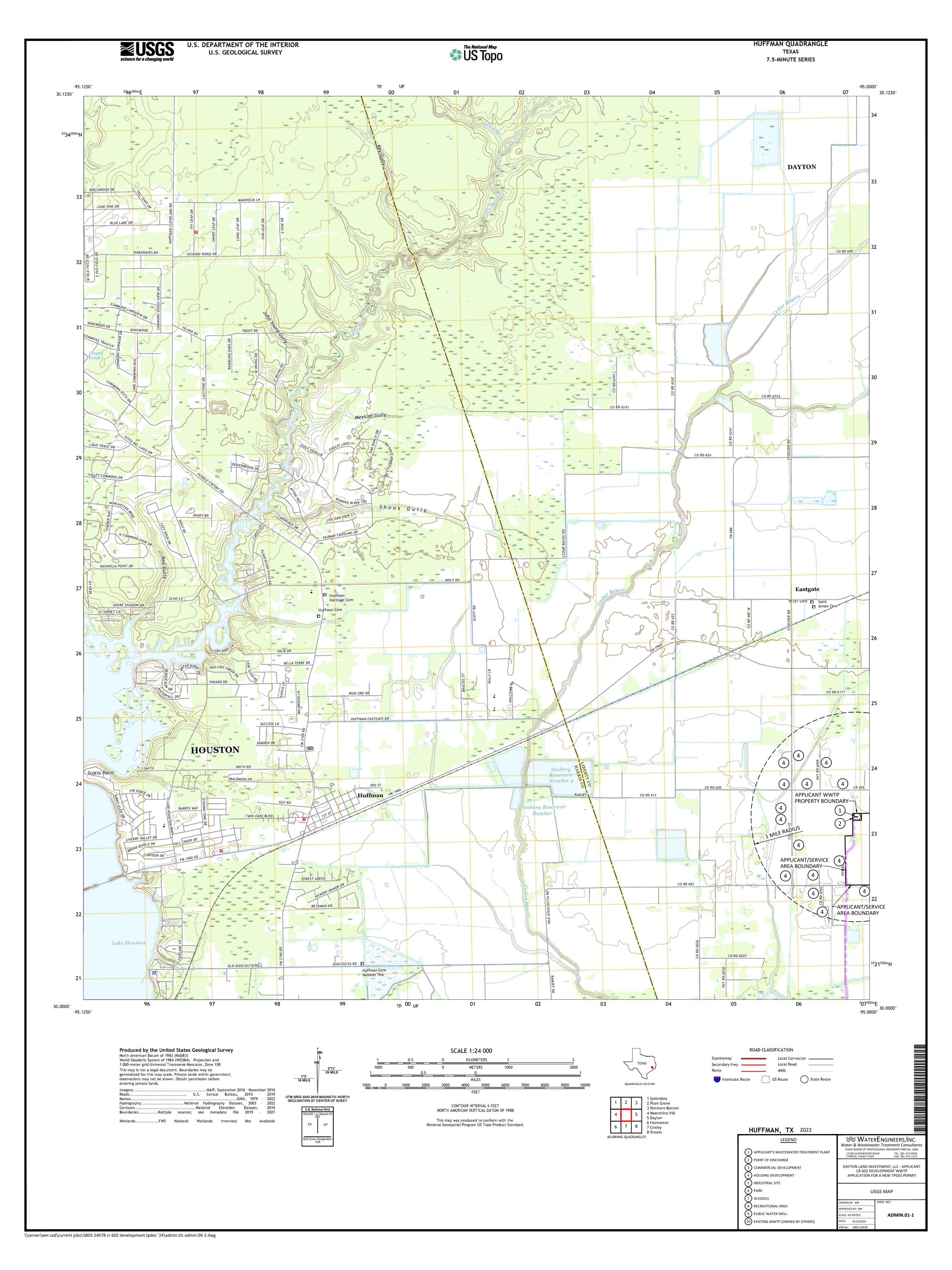
Phone No.: 713-452-1700 E-mail Address: land.development@signorellicompany.com

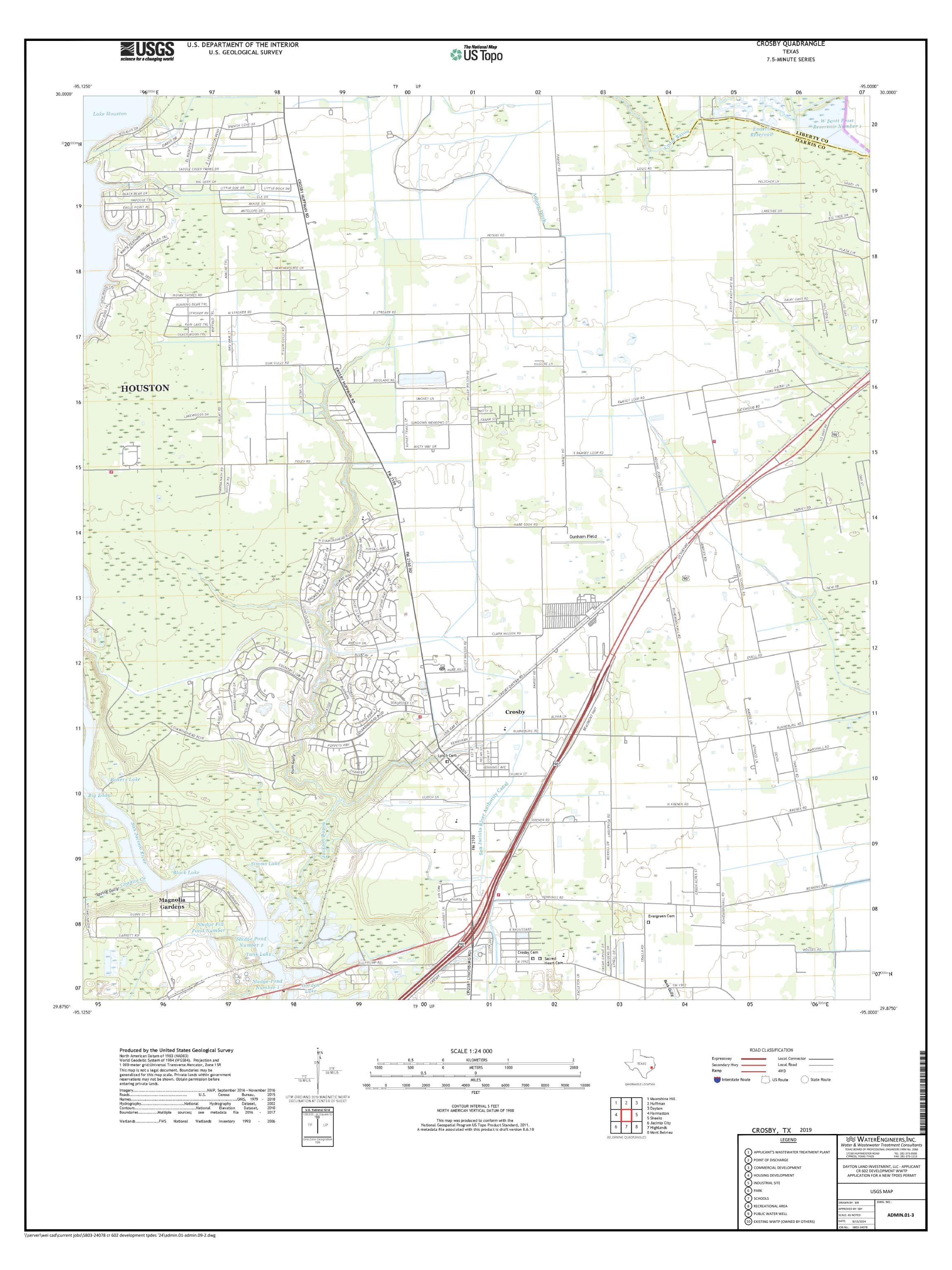












WILLIAM F HOHN REVOCABLE TRUST THOMAS VYORAL PATRICIA FIELDER 3927 COUNTY ROAD 602 14006 WOODFOREST **4241 COUNTY ROAD 602 HOUSTON TX 77015 DAYTON TX 77535 DAYTON TX 77535** BETTY JANE WILLIAMSON LEONARD & DIANNE VYORAL SCOTT HURTA 7 SKYLARK STREET 4061 COUNTY ROAD 602 4045 COUNTY ROAD 602 **DAYTON TX 77535 DAYTON TX 77535 DAYTON TX 77535** PATRICK SKRLA FRANCISCO & HERMELA FRANCO **JOSEPHINE SVOBODA 5215 MAPLE STREET** 3562 COUNTY ROAD 602 402 COUNTY ROAD 611 CROSBY TX 77532 DAYTON TX 77535 **DAYTON TX 77535 TERRY & EDWIN SEFCIK** MICHAEL & PAT SKRLA EVELYN ROSSI **601 INNWOOD DRIVE** 5112 LAKE JACKSON DR 3562 COUNTY ROAD 602 WACO TX 76710 DAYTON TX 77535 **GEORGETOWN TX 78628** ADAM & MICHELLE LEDOUX FLOYD & THERESE LEBLANC TOMMY & PAMELA BELCHER 935 COUNTY ROAD 611 6854 COUNTY ROAD 605 6924 COUNTY ROAD 605 **DAYTON TX 77535 DAYTON TX 77535 DAYTON TX 77535** CINDY CHURTZ MARIA ESCOBAR SCOTTIE & RENEE MONTET 905 HIGHWAY 322 APT 607 6950 COUNTY ROAD 605 6980 COUNTY ROAD 605 **DAYTON TX 77535** LAKE JACKSON TX 77566 **DAYTON TX 77535** JUAN & JOSE RAMIREZ ROSALINDA VELA DENNIS STANLEY 7032 COUNTY ROAD 605 7062 COUNTY ROAD 605 1544 COUNTY ROAD 2107 **DAYTON TX 77535 DAYTON TX 77535** LIBERTY TX 77575 OCCIDENTAL CHEMICAL CORP **ROY JONES** TOMMY SMITH P O BOX 27711 **7145 COUNTY ROAD 605 7305 COUNTY ROAD 605 HOUSTON TX 77227 DAYTON TX 77535 DAYTON TX 77535** LAURENCIO & MARIA ALBARRAN ZACH & LAUREN COLVIN CLAYTON COLVIN 12813 GREEN RIVER DR 550 PRIVATE ROAD 6114 307 PRIVATE ROAD 6114 **DAYTON TX 77535 DAYTON TX 77535 HOUSTON TX 77044** DAVID HOHN LYNDA HOHN LOUIS HOHN JR 438 PEBBLE DRIVE 333 PRIVATE ROAD 6114 195 PRIVATE ROAD 6114

DAYTON TX 77535

DAYTON TX 77535

DAYTON TX 77535

SHERRI ANN COLVIN 111 PRIVATE ROAD 6114 DAYTON TX 77535 PEPPIE VYORAL 4906 BRIDAL WREATH DRIVE RICHMOND TX 77406