



Administrative Package Cover Page

This file contains the following documents:

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



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

LH Ranch, Ltd. (Pending CN) proposes to operate Liberty County MUD No. 6 Wastewater Treatment Plant No. 1 (RN Pending), a wastewater treatment plant that shall consist of one (1) elevated headwork, three (3) aeration basins, three (3) final clarifiers, six (6) aerobic digesters and three (3) chlorine contact basin. The facility will be located at approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road, in Huffman, Liberty County, Texas 77336. This application is for a new application to discharge at a daily average flow of 780,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 10 milligrams per liter (mg/L) of CBOD₅, 15 mg/L TSS, 3 mg/L NH₃-N, 1-4 mg/L chlorine and Escherichia coli (E. coli). Domestic wastewater will be treated by an activated sludge wastewater treatment plant operated in the complete mix mode with nitrification.

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

AGUAS RESIDUALES DOMESTICAS /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.

LH Ranch, LTd. (CN Pendiente) propone operar la Planta de Tratamiento de Aguas Residuales No. 1 del Distrito de Servicios Públicos Municipales del Condado Liberty No. 6 RN Pendiente, una planta de concreto que va a consistir en una (1) plataforma elevada, tres (3) tanques de aeración, tres (3) clarificadores finales, seis (6) digestores aeróbicos, y tres (3) tanques de contacto de cloro. La instalación estará ubicada en aproximadamente 2.41 miles sureste de la intersección del Grand Parkway and Plum Grove Road, en Huffman, Condado de Liberty, Texas 77336. Esta solicitud es para una nueva Sistema de Eliminación de Vertidos Contaminantes de Texas (TPDES) permiso para la descarga de aguas residuales tratadas a un volumen de promedio diario de 780,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno de cinco días (CBOD5) de 10 miligramos por litro (mg/L), sólidos suspendidos totales (SST) de 15 mg/L, nitrógeno amoniacal (NH3-N) de 3 mg/L, clorina de 1 a 4 mg/L, y Escherichia coli (E. coli). Las aguas residuales domesticas. **estará** tratado por una planta de proceso de lodos activados operada en modo de mezcla completa.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016802001

APPLICATION. LH Ranch, Ltd., 500 West 5th Street, Suite 700, Austin, Texas 78701, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016802001 (EPA I.D. No. TX0147800) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 780,000 gallons per day. The domestic wastewater treatment facility will be located approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road, in Liberty County, Texas 77336. The discharge route will be from the plant site to Camp Branch; thence to Luce Bayou; thence to Lake Houston. TCEQ received this application on April 30, 2025. The permit application will be available for viewing and copying at Jones Public Library, 801 South Cleveland Street, Suite A, Dayton, in Liberty County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/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=-95.0716,30.1253&level=18>

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

El aviso de idioma alternativo en español está disponible en

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from LH Ranch, Ltd. at the address stated above or by calling Ms. Krystal Regner, P.E., EHRA Engineering, at 713-784-4500.

Issuance Date: June 18, 2025

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ0016802001

SOLICITUD. LH Ranch, Ltd., ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016802001 (EPA I.D. No. TX0147800) 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 780,000 galones por día. La planta estará ubicada aproximadamente 2.141 millas sureste de la intersección de Grand Parkway y Plum Grove Road en el Condado de Liberty, Texas 77336. La ruta de descarga estará del sitio de la planta a Sucursal del Campamento; de allí a Luce Bayou; de allí al lago Houston. La TCEQ recibió esta solicitud el 30 de abril de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Jones Public Library, 801 South Cleveland Street, Suite A, Dayton, en el Condado de Liberty antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

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

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.0716,30.1253&level=18>

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

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

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

una audiencia administrativa de lo contencioso.

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

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

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

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

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

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

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

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

También se puede obtener información adicional del LH Ranch, Ltd. a la dirección indicada arriba o llamando a Krsytal Regner, P.E., EHRA Engineering al 713-784-4500.

Fecha de emisión: 18 de junio de 2025

**TCEQ DOMESTIC WASTEWATER PERMIT APPLICATION
FOR
LIBERTY COUNTY MUD NO. 6
WASTEWATER TREATMENT PLANT NO. 1
NEW PERMIT APPLICATION**



APRIL 2025

Prepared By:



10011 Meadowglen Lane
Houston, Texas 77042
www.EHRA.team | 713.784.4500
TBPE No. F-726 | TBPLS No. 10092300

List of Exhibits and Attachments
New TPDES Permit Application Liberty County MUD No. 6
Wastewater Treatment Plant No. 1

List of Exhibits

- Exhibit 1 – USGS Huffman Quad Map
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1A – USGS Plum Grove Quad Map
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 2 – Affected Landowner Map
(Corresponds to Administrative Report 1.1, Section 1.A, Page 13 of 17)
- Exhibit 3 – Original Photos
(Corresponds to Administrative Report 1.1, Section 2, Page 14 of 17)
- Exhibit 3A – Photograph Reference Map
(Corresponds to Administrative Report 1.1, Section 2, Page 14 of 17)
- Exhibit 4 – Buffer Zone Map
(Corresponds to Administrative Report 1.1, Section 3.A, Page 14 of 17)
- Exhibit 5 – Process Flow Diagram – Phase I
(Corresponds to Technical Report 1.0, Section 2.C, Page 2 of 66)
- Exhibit 5A – Process Flow Diagram – Phase II
(Corresponds to Technical Report 1.0, Section 2.C, Page 2 of 66)
- Exhibit B5 – Process Flow Diagram – Ultimate Phase
(Corresponds to Technical Report 1.0, Section 2.C, Page 2 of 66)
- Exhibit 6 – Service Area Map
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)
- Exhibit 6A – Site Layout
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)
- Exhibit 7 – Regionalization Map
(Corresponds to Technical Report 1.1, Section 3, Page 20 of 66)

List of Attachments

- Attachment 1 – TCEQ Core Data Form
(Corresponds to Administrative Report 1.0, Section 3.C, Page 5 of 17)
- Attachment 2 – Plain Language Summary
(Corresponds to Administrative Report 1.0, Section 8.F, Page 8 of 17)
- Attachment 3 – Public Involvement Plan Form
(Corresponds to Administrative Report 1.0, Section 8.G, Page 8 of 17)
- Attachment 4 – Corresponding List of Downstream and Surrounding Landowners
(Corresponds to Administrative Report 1.1, Section 1.B, Page 13 of 17)
- Attachment 4A – Labels of Downstream and Surrounding Landowner Addresses
(Corresponds to Administrative Report 1.1, Section 1.C, Page 13 of 17)
- Attachment 5 – Supplemental Permit Information Form
(Corresponds to Administrative Report 1.1, Page 15 of 17)
- Attachment 5A – Treatment Units
(Corresponds to Technical Report 1.0, Section 2.B Page 2 of 66)

Attachment 6 – Sewage Sludge Solid Management Plan

(Corresponds to Technical Report 1.1, Section 1.F, Page 8 of 66)

Attachment 7 – Regionalization Correspondence

(Corresponds to Technical Report 1.1, Section 3, Page 20 of 66)

Attachment 8 – Design Calculations

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Attachment 8A – Design Features

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Attachment 9 – Wind Rose

(Corresponds to Technical Report 1.1, Section 5.B, Page 23 of 66)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: LH Ranch, LTD

PERMIT NUMBER (If new, leave blank): WQ00New Permit

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

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Affected Landowners Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Summary of Application (PLS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Public Involvement Plan Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 4.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 6.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input checked="" type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 059507
Check/Money Order Amount: \$1,650.00
Name Printed on Check: EHRA Engineering

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

- ☐ Publicly Owned Domestic Wastewater
- ☒ Privately-Owned Domestic Wastewater
- ☐ Conventional Water Treatment

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

- ☐ Active ☒ Inactive

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

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

d. Check the box next to the appropriate application type

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

For amendments or modifications, describe the proposed changes: [Click to enter text.](#)

For existing permits:

Permit Number: WQ00 [Click to enter text.](#)

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

Expiration Date: [Click to enter text.](#)

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

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

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

LH Ranch, LTD.

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

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?

You may search for your CN on the TCEQ website at <http://www15.tceq.texas.gov/crpub/>

CN: [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: Pastor, Andrew

Title: EVP

Credential: [Click to enter text.](#)

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

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

[Click to enter text.](#)

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

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

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: Regner, Krystal
Title: Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: kregner@ehra.team
Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Miss Last Name, First Name: Vallejo, Susy
Title: Engineer III Credential: E.I.T
Organization Name: EHRA Engineering
Mailing Address: svallejo@ehra.team City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: svallejo@ehra.team
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: Ms. Last Name, First Name: Regner, Krystal
Title: Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: kregner@ehra.team

B. Prefix: Miss Last Name, First Name: Vallejo, Susy
Title: Engineer III Credential: E.I.T.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: svallejo@ehra.team

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: Click to enter text. Last Name, First Name: Frey, Megan
Title: Principal Credential: Click to enter text.
Organization Name: LH Ranch, LP.
Mailing Address: 500 W 5th Street, Suite 700 City, State, Zip Code: Austin, TX 78701
Phone No.: 512.682.5585 E-mail Address: mfrey@endeavor-re.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: Click to enter text. Last Name, First Name: Frey, Megan
Title: Principal Credential: Click to enter text.
Organization Name: LH Ranch, LP.
Mailing Address: 500 W 5th Street, Suite 700 City, State, Zip Code: Austin, TX 78701
Phone No.: 512.682.5585 E-mail Address: mfrey@endeavor-re.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Regner, Krystal
Title: Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: kregner@ehra.team

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms.

Last Name, First Name: Regner, Krystal

Title: Project Manager

Credential: P.E.

Organization Name: EHRA Engineering

Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Click to enter text.

Phone No.: 713.784.4500

E-mail Address: kregner@ehra.team

D. Public Viewing Information

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

Public building name: R.B. Tullis Branch Library

Location within the building: Click to enter text.

Physical Address of Building: 21569 US-59

City: New Caney

County: Liberty

Contact (Last Name, First Name): Russell, Tina

Phone No.: 281.577.8968 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

☒ Yes

☐ No

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

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

☒ Yes

☐ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

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

Attachment: Attachment 2

G. Public Involvement Plan Form

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

Attachment: Attachment 3

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

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

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

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

Liberty County MUD No. 6 Wastewater Treatment Plant No. 1

C. Owner of treatment facility: LH Ranch, LP.

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

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

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

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

Organization Name: LH Ranch, LP.

Mailing Address: 500 W 5th Street, Suite 700 City, State, Zip Code: Austin, TX 8701

Phone No.: 512.682.5585 E-mail Address: mfrey@endeavor-re.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: [Click to enter text.](#)

Last Name, First Name: NOT APPLICABLE

Title: [Click to enter text.](#)

Credential: [Click to enter text.](#)

Organization Name: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, Zip Code: [Click to enter text.](#)

Phone No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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

Prefix: [Click to enter text.](#)

Last Name, First Name: NOT APPLICABLE

Title: [Click to enter text.](#)

Credential: [Click to enter text.](#)

Organization Name: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, Zip Code: [Click to enter text.](#)

Phone No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐

Yes

☐

No

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

The proposed wastewater treatment plant is located approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road in Huffman, Texas in Liberty County.

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

☐

Yes

☐

No

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

The effluent will be discharged from the WWTP to Camp Branch West Fork; then to Luce Bayou Segment 1002B; then to Lake Houston.

City nearest the outfall(s): New Caney

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

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

☐

Yes

☒

No

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

- ☐ Authorization granted ☐ Authorization pending

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

Attachment: [Click to enter text.](#)

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

NOT APPLICABLE

- 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:

NOT APPLICABLE

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

NOT APPLICABLE

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: [Click to enter text.](#)

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New Permit

Applicant: LH Ranch, Ltd.

Certification:

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

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

Signatory name (typed or printed):

Signatory title:

Signature: _____

(Use blue ink)

Date: _____

Subscribed and Sworn to before me by the said _____

on this 8th day of April, 2025.

My commission expires on the 16 day of January, 2028.

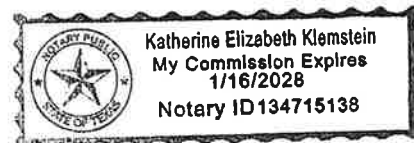
Katherine Elizabeth Klemstein

Notary Public

[SEAL]

Travis

County, Texas



DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☐ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. ☒ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- D. Provide the source of the landowners' names and mailing addresses: Liberty County Appraisal District
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

- ☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Attachment 5

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No: New Permit**

1. Check or Money Order Number: 059507
2. Check or Money Order Amount: \$1,650.00
3. Date of Check or Money Order: 03/31/2025
4. Name on Check or Money Order: EHRA Engineering
5. APPLICATION INFORMATION

Name of Project or Site: Liberty County MUD No 6 Wastewater Treatment Plant No. 1

Physical Address of Project or Site: Liberty County, Texas

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

Staple Check or Money Order in This Space

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Summary of Application (in Plain Language) ☒ Yes



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.26

2-Hr Peak Flow (MGD): 1.04

Estimated construction start date: August 2026

Estimated waste disposal start date: August 2027

B. Interim II Phase

Design Flow (MGD): 0.52

2-Hr Peak Flow (MGD): 2.08

Estimated construction start date: August 2029

Estimated waste disposal start date: August 2030

C. Final Phase

Design Flow (MGD): 0.78

2-Hr Peak Flow (MGD): 3.12

Estimated construction start date: August 2032

Estimated waste disposal start date: August 2033

D. Current Operating Phase

Provide the startup date of the facility: Not yet constructed

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Facility will operate as an activated sludge treatment plant in complete mix mode with nitrification process. Treatment units for Phase I include a manual bar screen, two (2) aeration basins, one (1) aerobic digester basin, one (1) final clarifier and one (1) chlorine contact basin. In Phase II treatment units will include an elevated headworks platform with mechanical bar screen, two (2) aeration basins, four (4) aerobic digester basin, two (2) final clarifiers and two (2) chlorine contact basin. In the ultimate phase, the treatment units will consist of an elevated headworks platform, three (3) aeration basins, six (6) aerobic digesters, three (3) final clarifiers and three (3) chlorine contact basins.

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)
Please see Attachment 5A		

C. Process Flow Diagram

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

Attachment: Exhibits, 5, 5A & 5B

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

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

- Latitude: 30.1254
- Longitude: -95.0710

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

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

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

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

Attachment: Exhibit 6 & 6A

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

Liberty County MUD No. 6 Wastewater Treatment Facility will serve a residential development with light commercial development within Liberty County. The residential development will ultimately serve 2,534 equivalent single-family connections.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
TBD	LH Ranch, Ltd.	Choose an item.	2,534
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Not applicable.

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Not applicable.

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☐ Yes ☒ No

If **yes**, provide the date(s) of approval for each phase: [Click to enter text.](#)

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

Not applicable.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

The buffer zone requirements are met through ownership.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Not applicable.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Not applicable.

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.

Not applicable.

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.

Not applicable.

E. Stormwater management

1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☐ Yes ☐ No

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

TXR05 [Click to enter text.](#) or TXRNE [Click to enter text.](#)

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

☐ Yes ☐ No

3. Conditional exclusion

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

☐ Yes ☐ No

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

Click to enter text.

4. Existing coverage in individual permit

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

☐ Yes ☐ No

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

Click to enter text.

5. Zero stormwater discharge

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

☐ Yes ☐ No

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

Click to enter text.

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

6. Request for coverage in individual permit

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

☐ Yes ☐ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☒ Yes ☐ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. [Attachment 6](#)

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Not applicable.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Not applicable.

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.

Not applicable.

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

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

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

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: TBD

Facility Operator's License Classification and Level: TBD

Facility Operator's License Number: TBD

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (≥ 2 years)
- ☐ Methane or Biogas Recovery
- ☒ Other Treatment Process: Sludge transport to another facility for dewatering and further processing.

C. Sewage Sludge or Biosolids Management

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

permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Handler or Preparer	Not Applicable		Class B: PSRP Aerobic Digestion	N/A: Transported to another facility for further processing
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): Transported to another treatment facility for further processing.

D. Disposal site

Disposal site name: To be Determined

TCEQ permit or registration number: Click to enter text.

County where disposal site is located: Click to enter text.

E. Transportation method

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

Name of the hauler: To Be Determined

Hauler registration number: Click to enter text.

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:
Attachment: [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:
Attachment: [Click to enter text.](#)
- Federal Emergency Management Map:
Attachment: [Click to enter text.](#)
- Site map:
Attachment: [Click to enter text.](#)

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

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands

- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: [Click to enter text.](#)

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

[Click to enter text.](#)

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

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

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

Arsenic: [Click to enter text.](#)

Cadmium: [Click to enter text.](#)

Chromium: [Click to enter text.](#)

Copper: [Click to enter text.](#)

Lead: [Click to enter text.](#)

Mercury: [Click to enter text.](#)

Molybdenum: [Click to enter text.](#)

Nickel: [Click to enter text.](#)

Selenium: [Click to enter text.](#)

Zinc: [Click to enter text.](#)

Total PCBs: [Click to enter text.](#)

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec?

☐ Yes ☐ No

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

[Click to enter text.](#)

D. Site development plan

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

[Click to enter text.](#)

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: [Click to enter text.](#)
- Copy of the closure plan
Attachment: [Click to enter text.](#)
- Copy of deed recordation for the site
Attachment: [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions
Attachment: [Click to enter text.](#)

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: [Click to enter text.](#)

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Andrew Pastaluf

Title: EVP

Signature: [Signature]

Date: 4/17/25

DOMESTIC WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

Liberty County MUD No. 6 Wastewater Treatment Facility will treat domestic wastewater from a planned residential community that does not currently have access to wastewater treatment. The limited surrounding facilities do not have capacities nor plans for expansion that could accommodate the anticipated flows from this community.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: [Click to enter text.](#)

If yes, attach correspondence from the city.

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

2. Utility CCN areas

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

☐ Yes ☒ No

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

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: [Exhibit 7](#)

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: [Attachment 7](#)

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 58)

Is this facility in operation?

☐ Yes ☒ No

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

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

A. Current organic loading

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

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [Click 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 BOD ₅ Concentration (mg/l)
Municipality	0.78	300
Subdivision		
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	0.78	
AVERAGE BOD ₅ from all sources		300

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: Phase II and Ultimate Phase shall dechlorinate to less than 0.1 mg/L chlorine

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Attachment 8

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☒ Yes ☐ No

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

Click to enter text.

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

FEMA Firm Panel No. 48291Co275C and FEMA Firm Panel No. 48291Co400C

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click to enter text.](#)

B. Wind rose

Attach a wind rose: [Attachment 9](#)

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

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

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

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

Attach a solids management plan to the application.

Attachment: [Attachment 7](#)

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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 to Section 2. If **yes**, provide the following:

Owner of the drinking water supply: [Click 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 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [Click to enter text.](#)

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☒ No

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

[Click to enter text.](#)

C. Sea grasses

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

☐ Yes ☒ No

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

[Click to enter text.](#)

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☒ No

If **yes**, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Camp Branch

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
- ☐ 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
- ☒ Personal observation
- ☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Key Gully West and East Forks

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

N/A – water bodies were affected by rain periods the week before. From what was visible, lots of ponding and

Date and time of observation: April 03, 2025 @ 11:25 am

Was the water body influenced by stormwater runoff during observations?

☒ Yes ☐ No

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

A. Upstream influences

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

☐ Oil field activities

☒ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: [Click to enter text.](#)

B. Waterbody uses

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

- | | |
|--|---|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input checked="" type="checkbox"/> Other(s), specify: <u>None; area is heavily wooded.</u> |

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Date of study: April 03, 2025 Time of study: 11:25 am

Stream name: Tributary stream of Camp Branch which is a Tributary of Luce Bayou

Location: Lat: 30°7'29.64" N, Long: -95°4'19.2"

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

☐ Perennial ☒ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

Number of stream bends that are well defined: 5

Number of stream bends that are moderately defined: 2

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☒ Minor ☐ moderate ☐ severe

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

Stream appears to me natural with some culverts that allow crossing of the stream. Appears undisturbed.

Stream transects

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

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	Transect location	Water surface width (ft)	Stream depths (ft) at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Run	Downstream 2	26'-0"	0'-7", 1'-3", 1'-8", 0'-11"
Run	Downstream 1	22'-0"	0'-6", 1'-1", 1'-2", 0'-8"
Run	Outfall	17'-6"	0'-3", 0'-9", 0'-11", 0'-6"
Run	Upstream	7'-5"	0'-2", 0'-4", 0'-6", 0'-2"
Choose an item.	**Disclaimer - transect location/data were extracted from LIDAR.		
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: 0.008

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

Length of stream evaluated, in feet: 125

Number of lateral transects made: 4

Average stream width, in feet: 18.5

Average stream depth, in feet: .71

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

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

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

Size of pools (large, small, moderate, none): none

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

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

Significant IUs – non-categorical:

Number of IUs: 0

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

Other IUs:

Number of IUs: 0

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

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

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

A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

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

A. General information

Company Name: [Click to enter text.](#)

SIC Code: [Click to enter text.](#)

Contact name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Telephone number: [Click to enter text.](#)

Email address: [Click to enter text.](#)

B. Process information

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

[Click to enter text.](#)

C. Product and service information

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

[Click to enter text.](#)

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: [Click to enter text.](#)

[Click or tap here to enter text.](#) [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

F. Industrial user interruptions

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

☐ Yes ☐ No

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

[Click to enter text.](#)

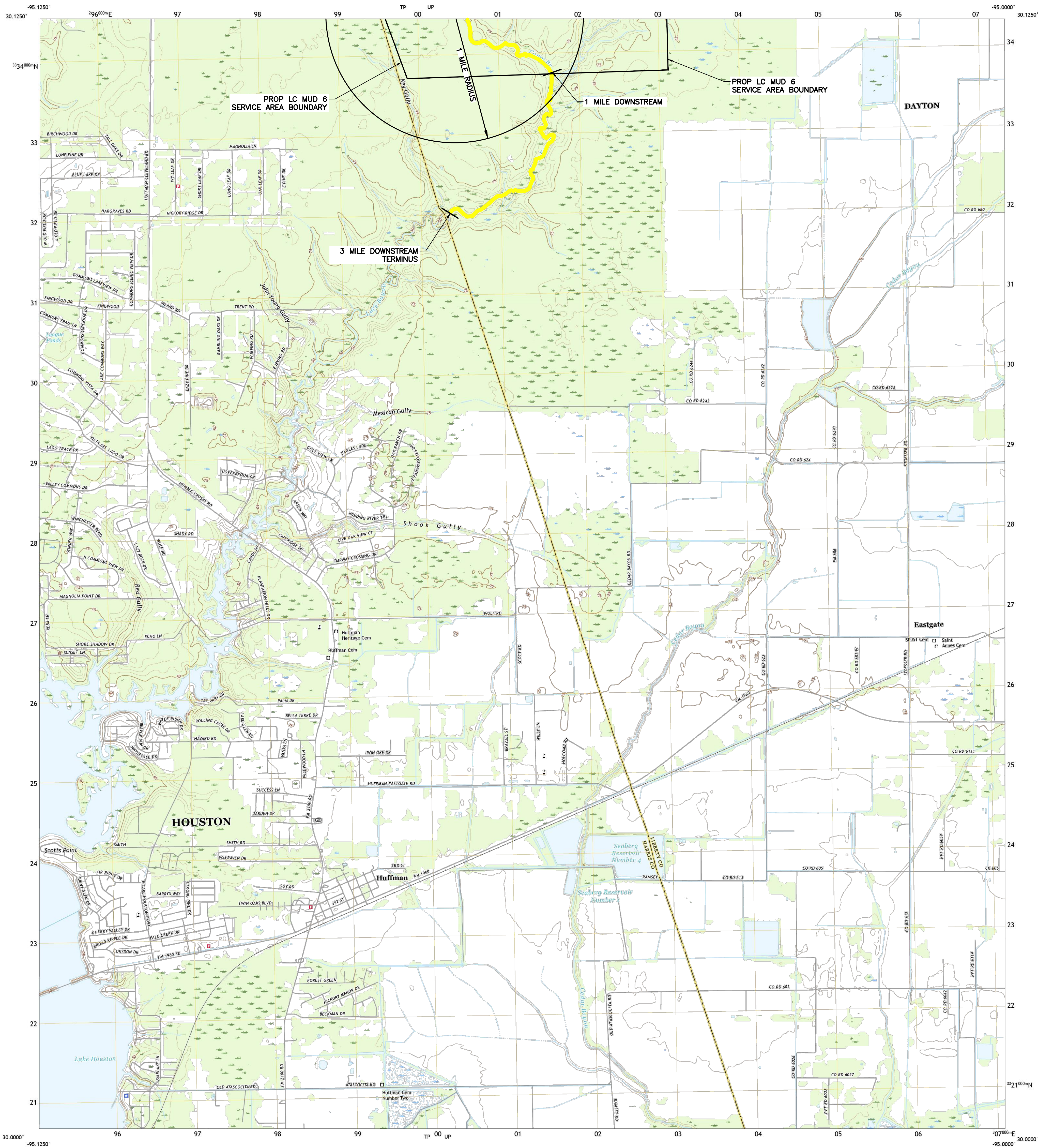
Exhibit 1 – USGS Huffman Quad Map
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)



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

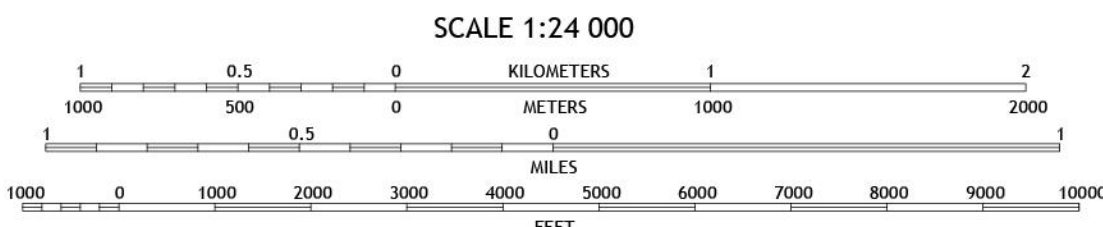
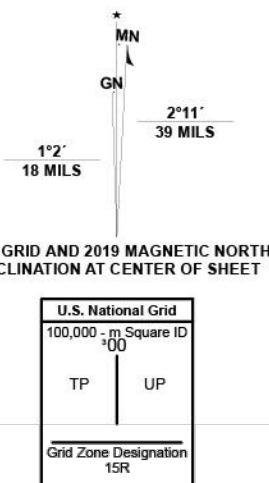


HUFFMAN QUADRANGLE
TEXAS
7.5-MINUTE SERIES

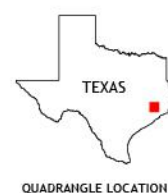


Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1000-meter grid/Universal Transverse Mercator, Zone 18R
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generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2022
Contours.....National Elevation Dataset, 2010
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3
4	5	6
7	8	9

- 1 Splondora
- 2 Plum Grove
- 3 Simmons Bottom
- 4 Moonshine Hill
- 5 Dayton
- 6 Harmanston
- 7 Crosby
- 8 Shooks

ROAD CLASSIFICATION

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

HUFFMAN, TX
2022



10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.784.4500
TBPE No. F-726 | TBPLS No. 10092300

LIBERTY COUNTY MUD NO 6
WWTP NO. 1
NEW TPDES PERMIT

EXHIBIT 1A
USGS HUFFMAN QUAD

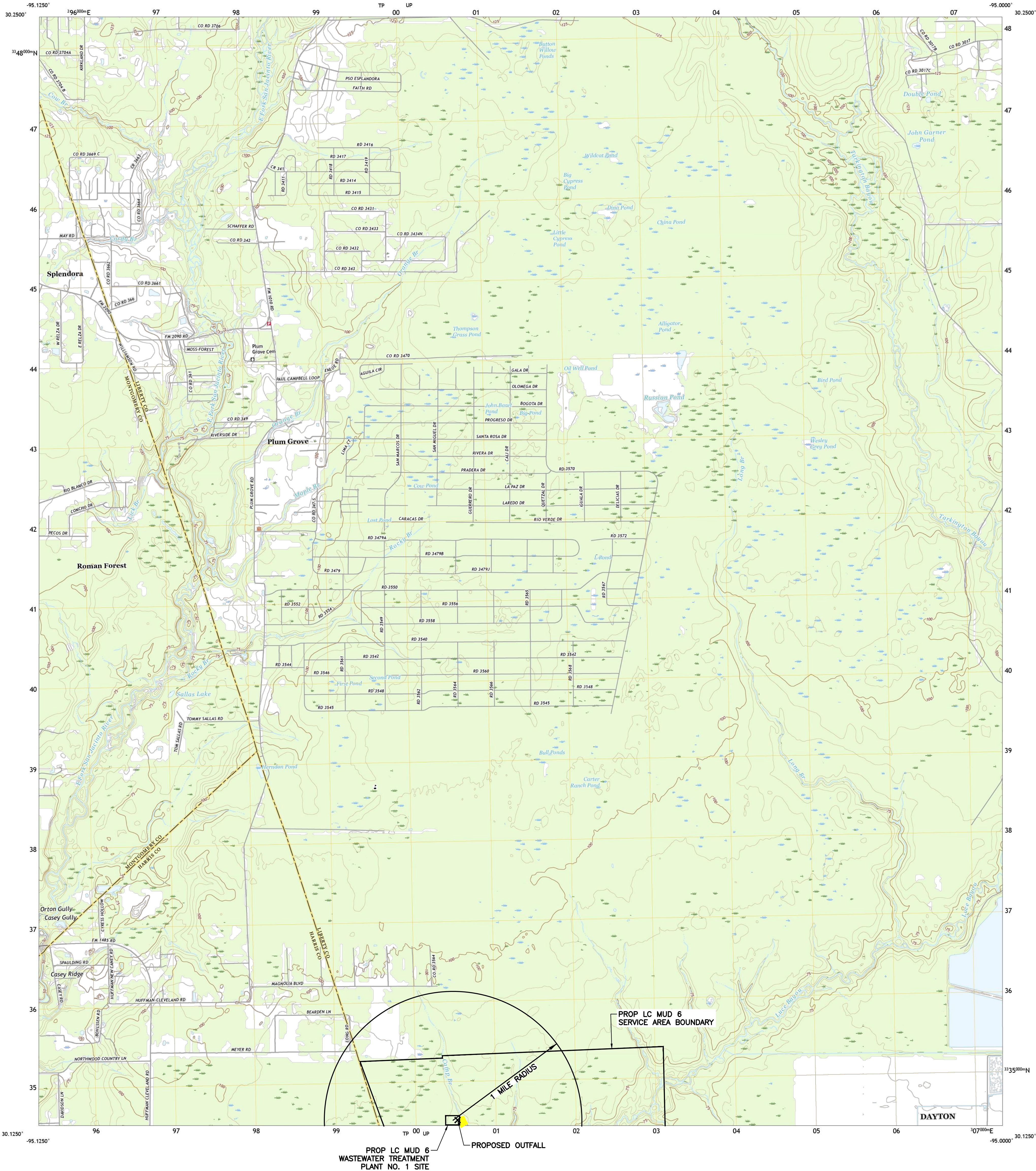
Exhibit 1A – USGS Plum Grove Quad Map
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)



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



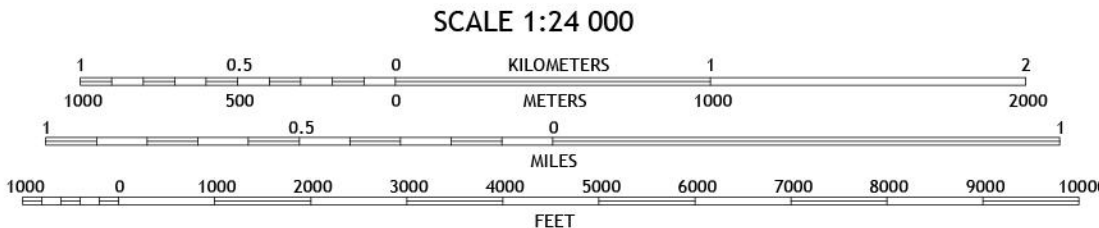
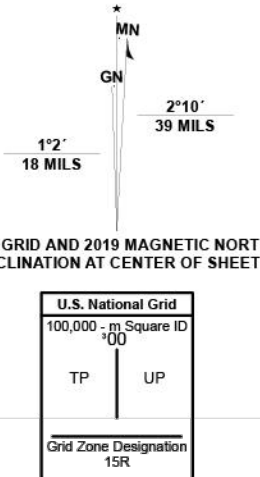
PLUM GROVE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1000-meter grid/Universal Transverse Mercator, Zone 15R.
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generalized for this map scale. Private lands within government
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Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2003 - 2022
Contours.....National Elevation Dataset, 2010
Boundaries.....Multiple sources; see metadata file 2019 - 2021

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



1	2	3
4	5	6
7	8	9

1 Fosteria
2 Cleveland
3 Tarkington Prairie
4 Splendora
5 Simmons Bottom
6 Moonshine Hill
7 Huffman
8 Dayton

ROAD CLASSIFICATION

Expressway.....
Secondary Hwy.....
Ramp.....
Interstate Route.....
US Route.....
State Route.....

Local Connector.....
Local Road.....
4WD.....

PLUM GROVE, TX
2022



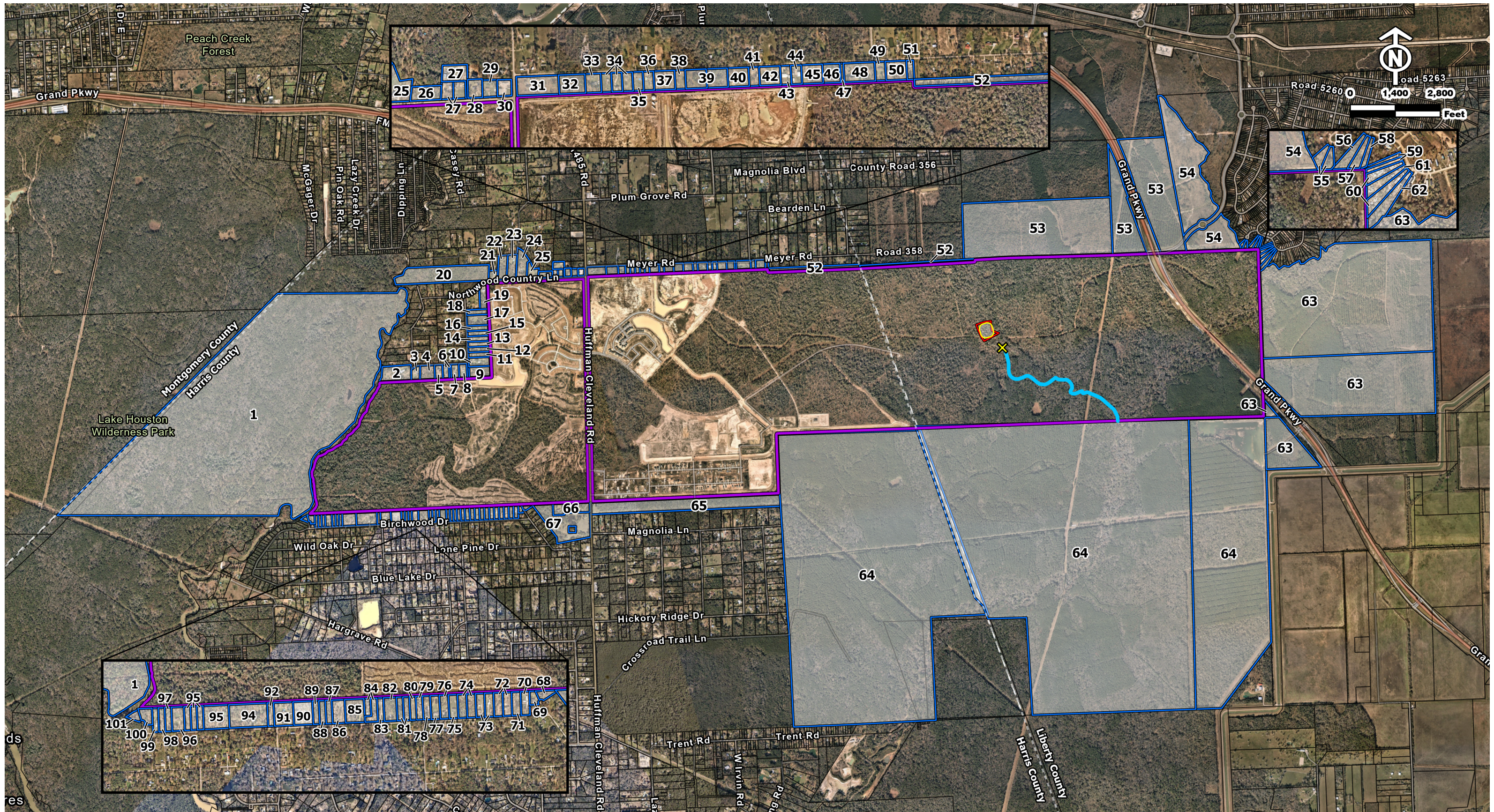
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TBPE No. F-726 | TBPLS No. 10092300

LIBERTY COUNTY MUD NO 6
WWTP NO. 1
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EXHIBIT 1
USGS PLUM GROVE QUAD

Exhibit 2 – Affected Landowner Map

(Corresponds to Administrative Report 1.1, Section 1A, Page 13 of 17)



Liberty County MUD No. 6 WWTP No. 1 New TPDES Permit Exhibit 2 - Affected Landowners Map

- Outfall Point
- 1 Mile Downstream
- 150-Ft Buffer
- Parcels
- Service Area & Property Boundary
- Adjacent Parcels
- WWTP Boundary

The data presented herein are for planning and assessment purposes only. EHRA maps are assembled from data originating from Geographic Information System (GIS) databases or GIS services maintained by public entities. They do not represent legal survey. While EHRA strives to provide as accurate and reliable data as possible, EHRA makes no claims or warranty, expressed or implied, regarding the accuracy or validity of the data or products presented.

Exhibit 3 – Original Photos

(Corresponds to Administrative Report 1.1, Section 2, Page 14 of 17)



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TX Reg. F-725 | TSPS No. 2008000

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EXHIBIT 3
PHOTO 1
UPSTREAM



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TWE 0001 F-725 | TWE 13 000 000000

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EXHIBIT 3
PHOTO 2
OUTFALL



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TWE: Mo. F-725 | TH: 5:30a. - 5:00pm

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Since 1985

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EXHIBIT 3
PHOTO 3
DOWNSTREAM



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Toll Free 1-877-777-7777

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Since 1996

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WWTP NO 1
NEW TPDES PERMIT

EXHIBIT 3
PHOTO 4
WWTP SITE

Exhibit 3A – Photograph Reference Map
(Corresponds to Administrative Report 1.1, Section 2, Page 14 of 17)

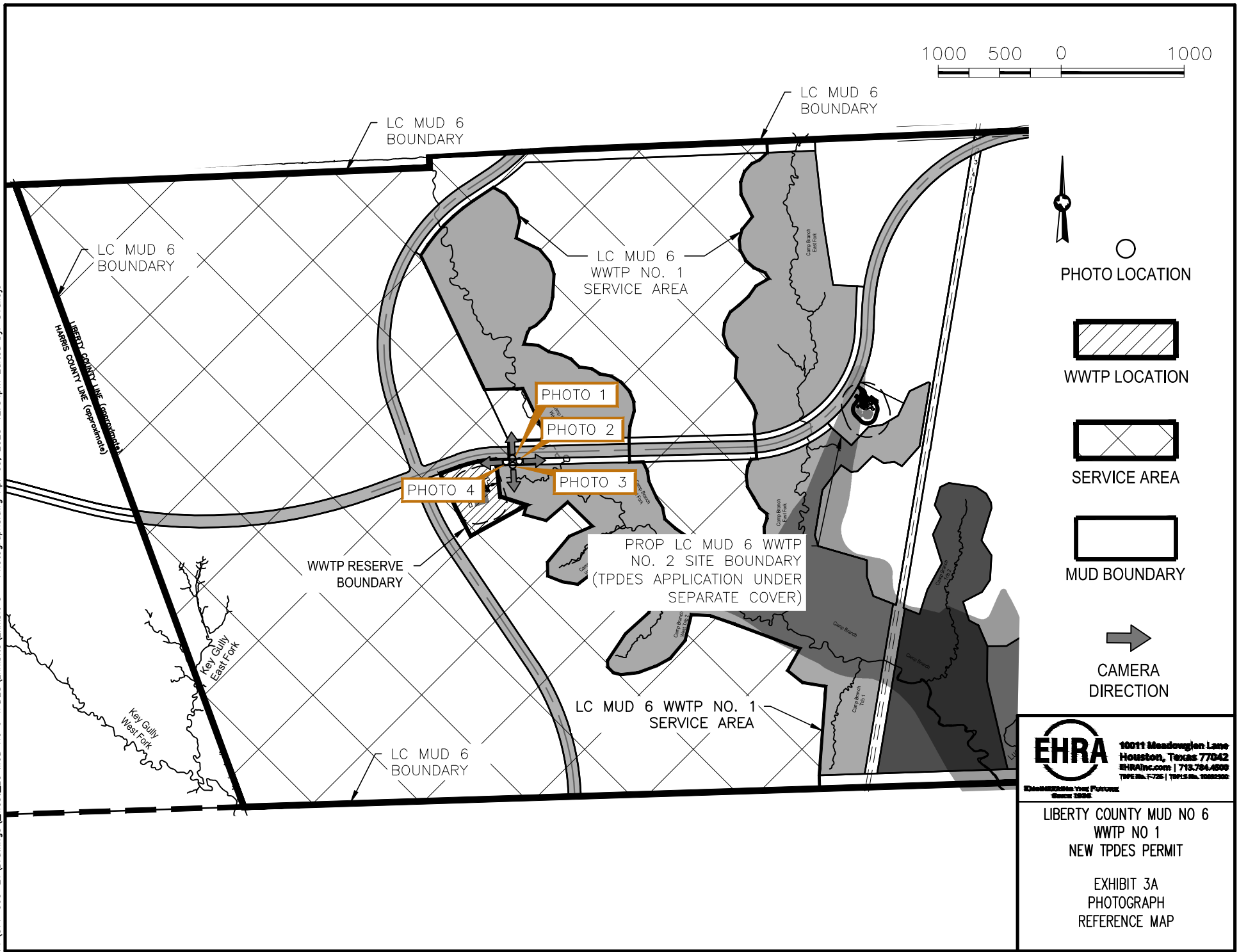


Exhibit 4 – Buffer Zone Map

(Corresponds to Administrative Report 1.1, Item 3.A, Page 14 of 17)

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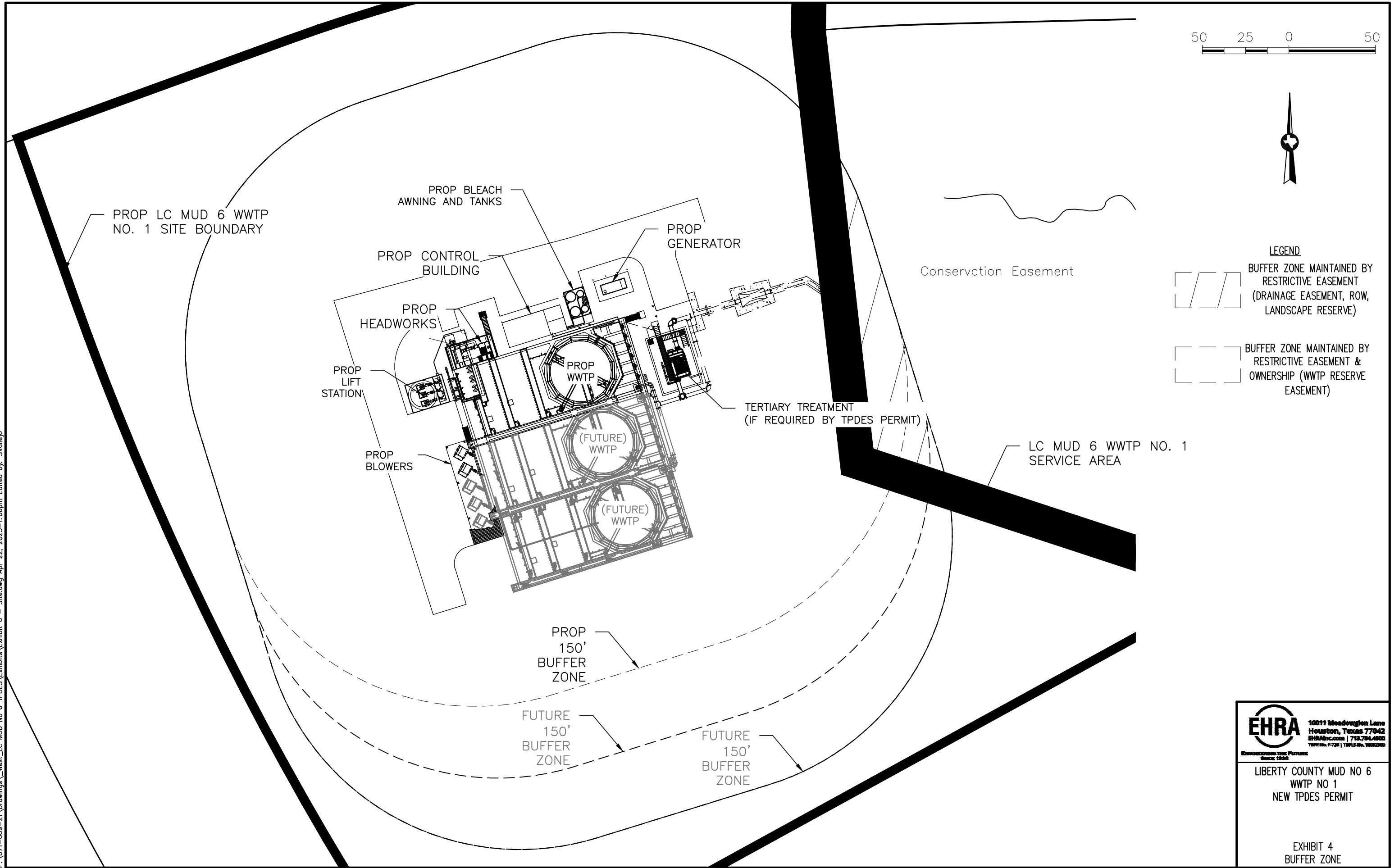
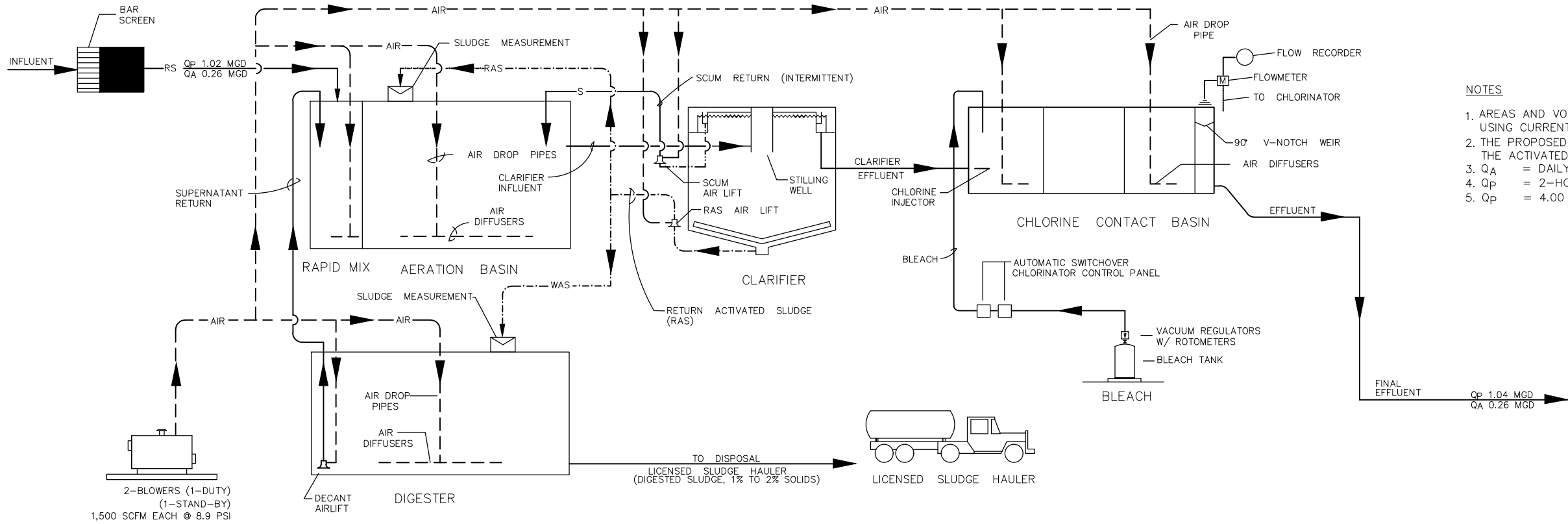


Exhibit 5 – Process Flow Diagram – Phase I
(Corresponds to Technical Report 1.0, Section 2.C, Page 2 of 66)

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	PHASE I
Flow, Q _A (gpd)	260,000
Flow, Q _P (gpd)	1,040,000
Flow, Q _A (gpm)	181
ESFC Served 300 gpd	867
Aeration Capacity (cu ft.)	20,146
Clarifier Capacity (cu ft.)	14,527
Digester Capacity (cu ft.)	12,870
Chlorine Contact Chamber Capacity (cu ft.)	2,989

- NOTES
1. AREAS AND VOLUMES SHOWN ARE EQUAL TO OR GREATER THAN MINIMUMS USING CURRENT CHAPTER 217 T.C.E.Q. DESIGN CRITERIA.
 2. THE PROPOSED PROCESS UTILIZES THE COMPLETE-MIX MODE OF THE ACTIVATED SLUDGE PROCESS.
 3. Q_A = DAILY AVERAGE FLOW = 0.26 MGD = 0.40 CFS
 4. Q_P = 2-HOUR PEAK FLOW = 1.04 MGD = 1.61 CFS
 5. Q_P = 4.00 * Q_A

LEGEND	
--- AIR ---	AIR PIPING
— RS —	RAW SEWAGE
- - - - SL - - - -	SLUDGE LINE
- - - - RAS - - - -	RETURN ACTIVATED SLUDGE
- - - - WAS - - - -	WASTE ACTIVATED SLUDGE
— S —	SCUM

VESSEL DESIGNATION	
PROPOSED:	
Rapid Mix/Feed Channel	8.0 ft. long x 34.0 ft. wide x 18.0 ft. SWD
Aeration (1 Basin)	30.0 ft. long x 34.0 ft. wide x 18.0 ft. SWD
Digester (2 Basins)	22.0 ft. long x 16.25 ft. wide x 18.0 ft. SWD
Clarifier (1 Basin)	34.0 ft. Dia. x 16.0 ft. SWD
Chlorine Contact (1 Basin)	5.0 ft. long x 34.0 ft. wide x 17.0 ft. SWD

DIMENSIONS	
PROPOSED:	
Rapid Mix/Feed Channel	8.0 ft. long x 34.0 ft. wide x 18.0 ft. SWD
Aeration (1 Basin)	30.0 ft. long x 34.0 ft. wide x 18.0 ft. SWD
Digester (2 Basins)	22.0 ft. long x 16.25 ft. wide x 18.0 ft. SWD
Clarifier (1 Basin)	34.0 ft. Dia. x 16.0 ft. SWD
Chlorine Contact (1 Basin)	5.0 ft. long x 34.0 ft. wide x 17.0 ft. SWD

VOLUME	
PROPOSED:	
Rapid Mix/Feed Channel	4,896 ft ³
Aeration (1 Basin)	20,146 ft ³ Including corners at clarifier
Digester (2 Basins)	6,435 ft ³ Each 12,870 ft ³ Total
Clarifier (1 Basin)	14,527 ft ³
Chlorine Contact (1 Basin)	2,989 ft ³ Including corners at clarifier

PROCESS FLOW DIAGRAM

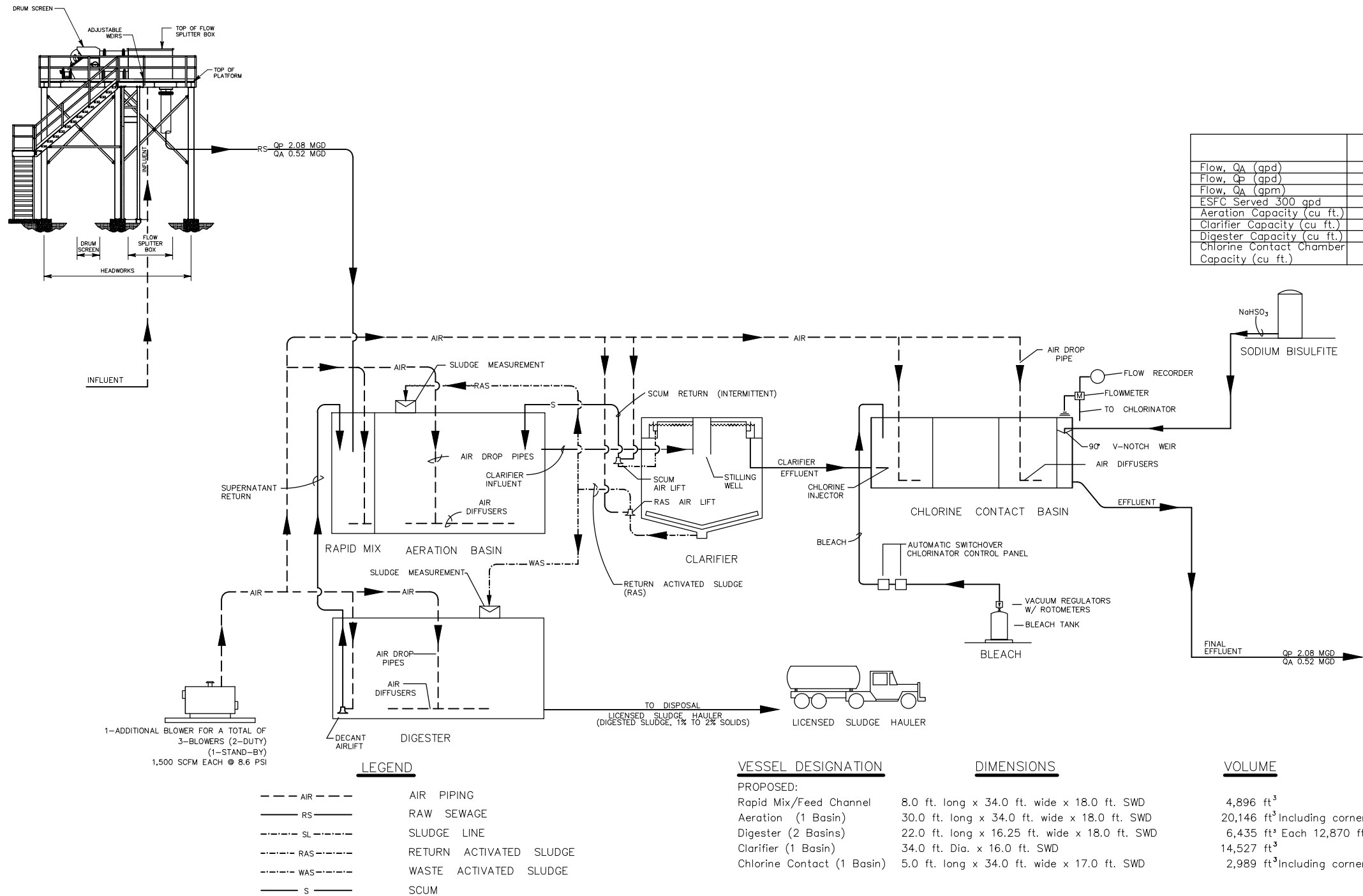


LIBERTY COUNTY MUD NO 6
WWTP NO 1
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EXHIBIT 5
PROCESS FLOW DIAGRAM
PHASE I

Exhibit 5A – Process Flow Diagram – Phase II
(Corresponds to Technical Report 1.0, Section 2.C, Page 2 of 66)

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	(existing)	+	(CONSTRUCTION)	=	(TOTAL)
	PHASE I		PHASE 2		PHASE 2 (CUMULATIVE)
Flow, Q _A (gpd)	260,000		260,000		520,000
Flow, Q _P (gpd)	1,040,000		1,040,000		2,080,000
Flow, Q _A (gpm)	181		181		361
ESFC Served 300 gpd	867		867		1,733
Aeration Capacity (cu ft.)	20,146		20,146		40,292
Clarifier Capacity (cu ft.)	14,527		14,527		29,054
Digester Capacity (cu ft.)	12,870		12,870		25,740
Chlorine Contact Chamber Capacity (cu ft.)	2,989		2,989		5,978

NOTES

1. AREAS AND VOLUMES SHOWN ARE EQUAL TO OR GREATER THAN MINIMUMS USING CURRENT CHAPTER 217 T.C.E.Q. DESIGN CRITERIA.
2. THE PROPOSED PROCESS UTILIZES THE COMPLETE-MIX MODE OF THE ACTIVATED SLUDGE PROCESS.
3. Q_A = DAILY AVERAGE FLOW = 0.52 MGD = 0.81 CFS
4. Q_P = 2-HOUR PEAK FLOW = 2.08 MGD = 3.22 CFS
5. Q_P = 4.00 * Q_A

PROCESS FLOW DIAGRAM

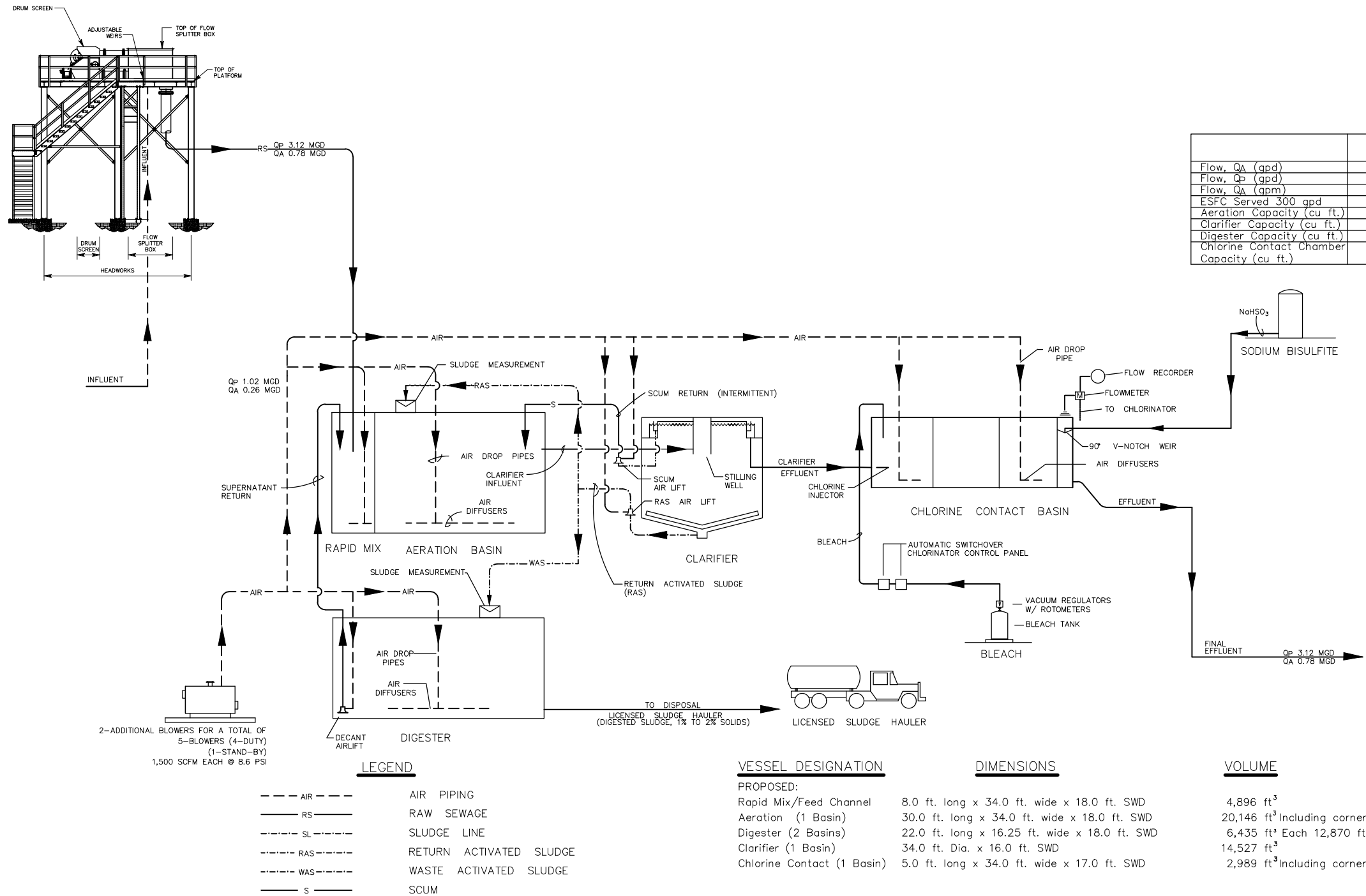


LIBERTY COUNTY MUD NO 6
WWTP NO 1
NEW TPDES PERMIT

EXHIBIT 5A
PROCESS FLOW DIAGRAM
PHASE II

Exhibit 5B – Process Flow Diagram – Ultimate Phase
(Corresponds to Technical Report 1.0, Section 2.C, Page 2 of 66)

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	(existing)	+	(existing)	+	(CONSTRUCTION)	=	(TOTAL)
	PHASE I		PHASE 2		ULTIMATE PHASE		ULTIMATE PHASE (CUMULATIVE)
Flow, Q _A (gpd)	260,000		260,000		260,000		780,000
Flow, Q _P (gpd)	1,040,000		1,040,000		1,040,000		3,120,000
Flow, Q _A (gpm)	181		181		181		542
ESFC Served 300 gpd	867		867		867		2,600
Aeration Capacity (cu ft.)	20,146		20,146		20,146		60,438
Clarifier Capacity (cu ft.)	14,527		14,527		14,527		43,581
Digester Capacity (cu ft.)	12,870		12,870		12,870		38,610
Chlorine Contact Chamber Capacity (cu ft.)	2,989		2,989		2,989		8,967

- NOTES**
- AREAS AND VOLUMES SHOWN ARE EQUAL TO OR GREATER THAN MINIMUMS USING CURRENT CHAPTER 217 T.C.E.Q. DESIGN CRITERIA.
 - THE PROPOSED PROCESS UTILIZES THE COMPLETE-MIX MODE OF THE ACTIVATED SLUDGE PROCESS.
 - Q_A = DAILY AVERAGE FLOW = 0.78 MGD = 0.40 CFS
 - Q_P = 2-HOUR PEAK FLOW = 3.12 MGD = 1.61 CFS
 - Q_P = 4.00 * Q_A

PROCESS FLOW DIAGRAM

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LIBERTY COUNTY MUD NO 6

WWTP NO 1

NEW TPDES PERMIT

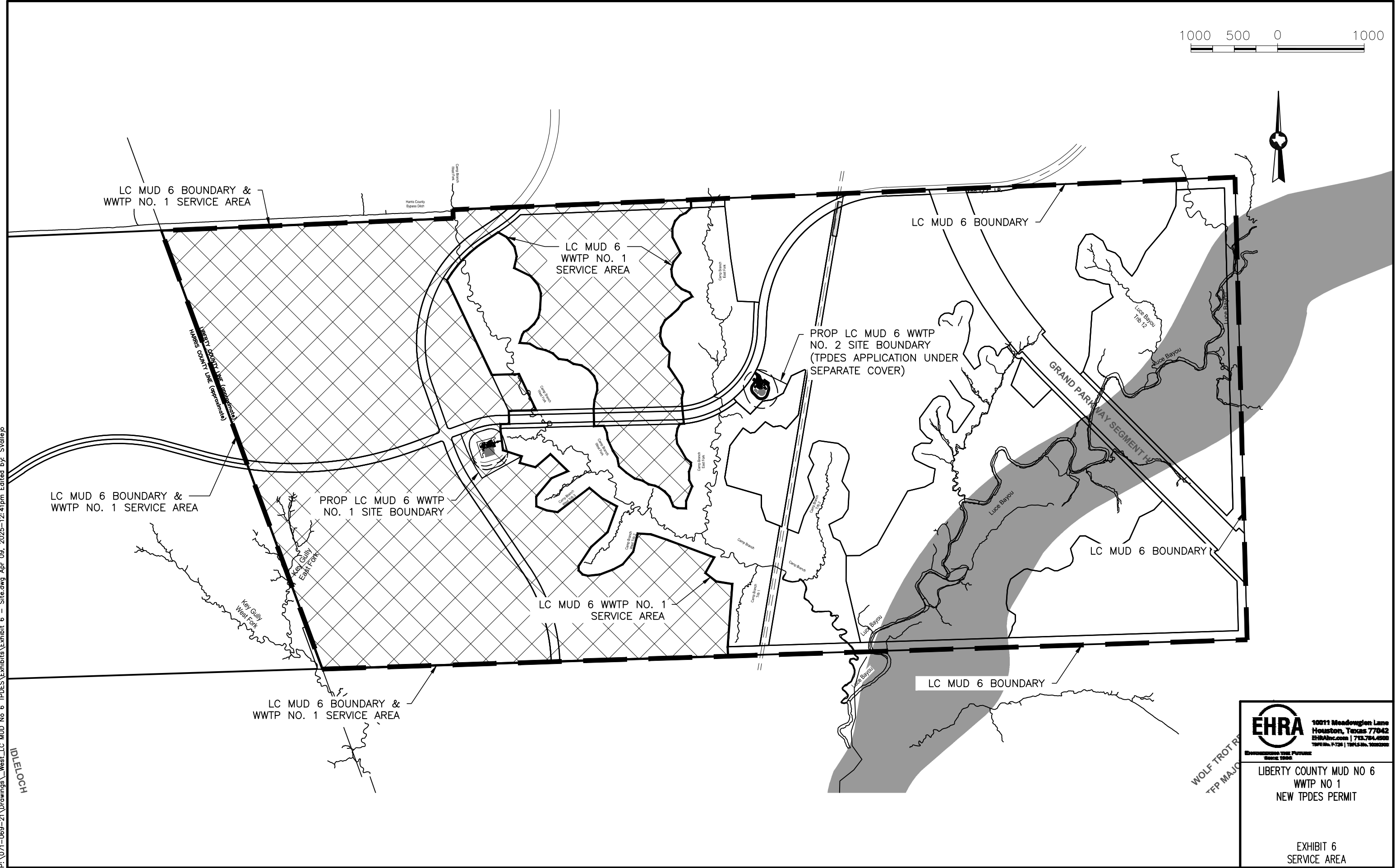
EXHIBIT 5B

PROCESS FLOW DIAGRAM

ULTIMATE PHASE

Exhibit 6 – Service Area Map


(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)



P:\071-069-21\Drawings\West_LC_MUD No 6 TPDES\Exhibits\Exhibit 6 - Site.dwg Apr 09, 2025-12:41pm Edited by: SVallejo

IDELELOCH

WOLF TROT RD
TWP MAJOR



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TWP No. 7-726 | TWP No. 10-2200

LIBERTY COUNTY MUD NO 6
WWTP NO 1
NEW TPDES PERMIT

EXHIBIT 6
SERVICE AREA

Exhibit 6A – Site Layout

(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)

P:\071-069-21\Drawings\West_LC_MUD No 6_TPDES\Exhibits\Exhibit 6 - Site.dwg Apr 22, 2025-12:22pm Edited by: SVallejo

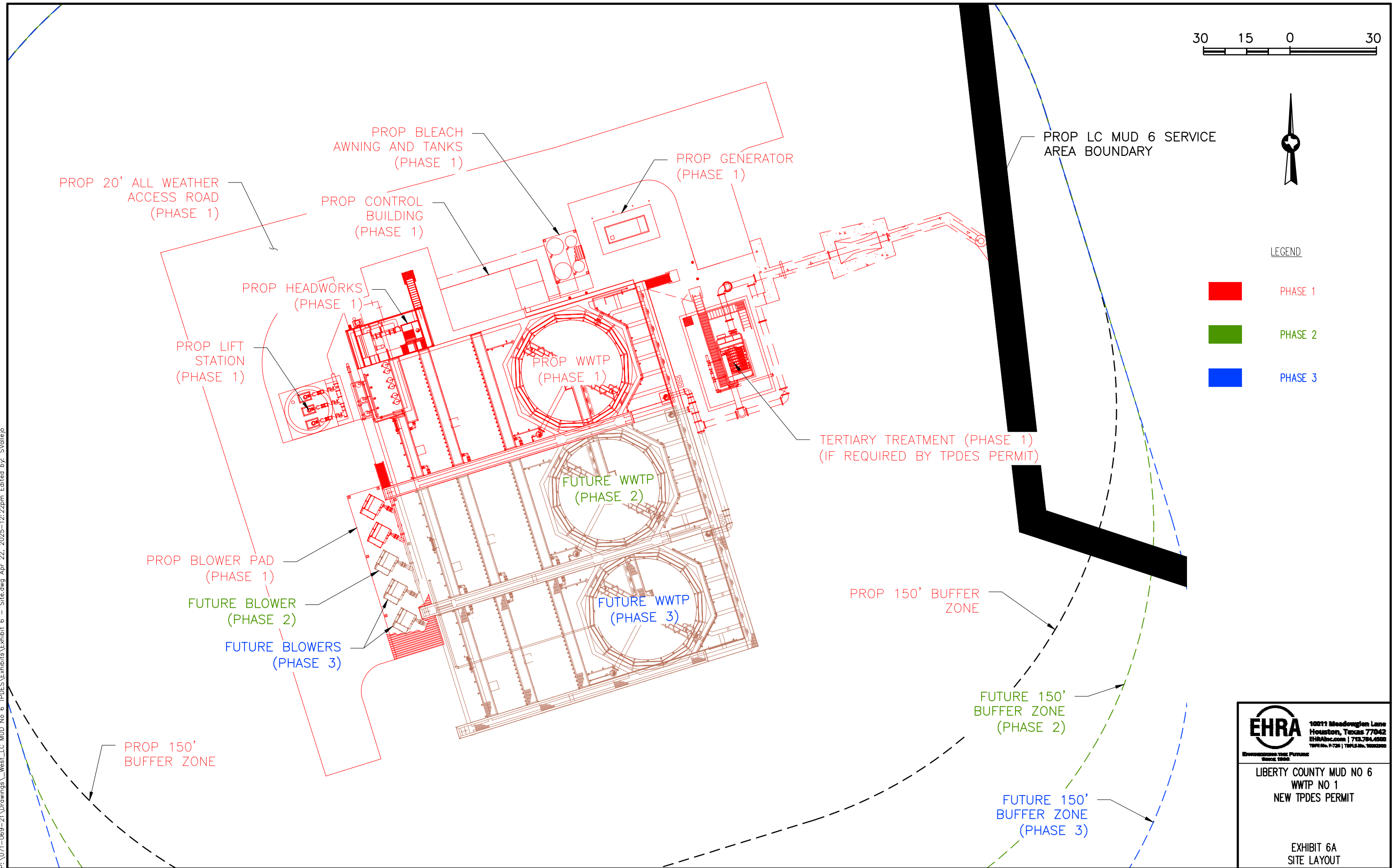
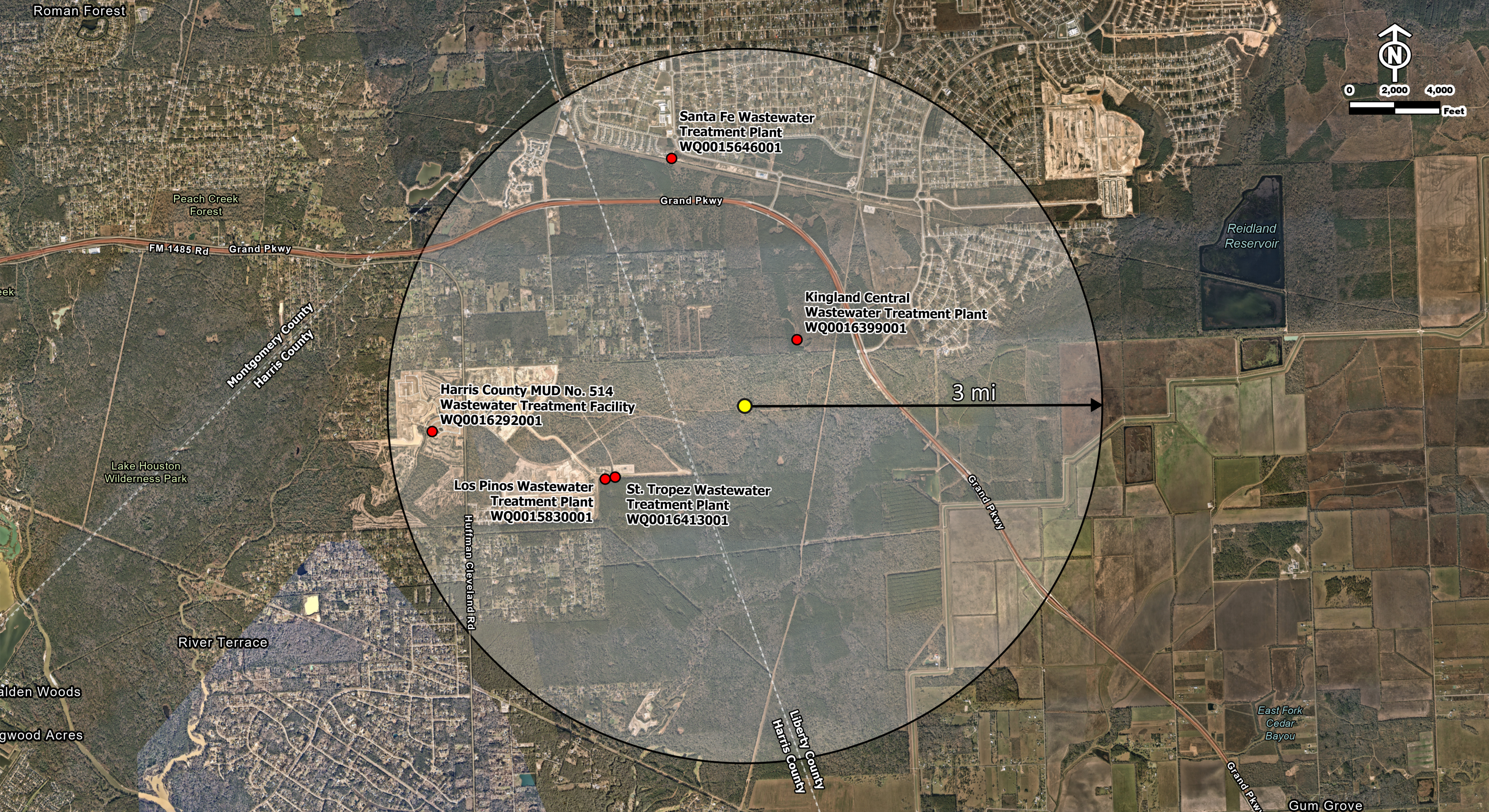


Exhibit 7 – Regionalization Map

(Corresponds to Technical Report 1.1, Section 3, Page 20 of 66)



Liberty County MUD No. 6 WWTP No. 1
New TPDES Permit
Exhibit 7 - WWTPs Within 3 Mile Radius

- Wastewater Treatment Plants
- Liberty County MUD No. 6 WWTP No. 1
- 3 Mile Buffer

Attachment 1 – TCEQ Core Data Form

(Corresponds to Administrative Report 1.0, Section 3.C, Page 5 of 18)



TCEQ Core Data Form

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)							
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)									
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>					
LH Ranch, Ltd.									
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID	10. DUNS Number (if applicable)				
0802665982		32063054764		(9 digits)					
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited				
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:					
12. Number of Employees				13. Independently Owned and Operated?					
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following									
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input checked="" type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant									
15. Mailing Address:		LH Ranch, Ltd.							
		500 W 5 th Street, Suite 700							
		City	Austin	State	TX	ZIP	78701	ZIP + 4	3833
16. Country Mailing Information (if outside USA)						17. E-Mail Address (if applicable)			
						apastor@endeavor-re.com			

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(512) 682-5585		() -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Liberty County Municipal Utility District No. 6 Wastewater Treatment Plant No. 1								
23. Street Address of the Regulated Entity: (No PO Boxes)	TDB							
	City		State		ZIP		ZIP + 4	
24. County								

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

25. Description to Physical Location:	Approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road in Huffman, Texas in Liberty County.							
26. Nearest City					State	Nearest ZIP Code		
Huffman					TX	77336		
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
27. Latitude (N) In Decimal:		30.1253			28. Longitude (W) In Decimal:		-95.0716	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	7	30.98	-95	4	17.83			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)			32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Wastewater Treatment Plant								
34. Mailing Address:	LH Ranch, Ltd.							
	500 W 5th Street, Suite 700							
	City	Austin	State	TX	ZIP	78701	ZIP + 4	3833
35. E-Mail Address:	apastor@endeavor-re.com							
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
(512) 682-5585					() -			

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

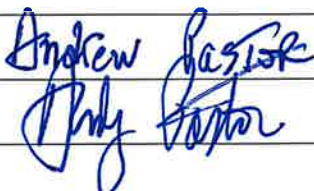
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Krystal Regner, P.E.		41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(713) 784-4500		() -	kregner@ehra.team	

SECTION V: Authorized Signature

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

Company:	LH Ranch, Ltd.	Job Title:	Principal EVP
Name (In Print):	Andrew Pastor	Phone:	(512) 682- 5585
Signature:		Date:	4/7/25

Attachment 2 – Plain Language Summary
(Corresponds to Administrative Report 1.0, Section 8.F, Page 8 of 18)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

LH Ranch, Ltd. (Pending CN) proposes to operate Liberty County MUD No. 6 Wastewater Treatment Plant No. 1 (RN Pending), a wastewater treatment plant that shall consist of one (1) elevated headwork, three (3) aeration basins, three (3) final clarifiers, six (6) aerobic digesters and three (3) chlorine contact basin. The facility will be located at approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road, in Huffman, Liberty County, Texas 77336. This application is for a new application to discharge at a daily average flow of 760,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 10 milligrams per liter (mg/L) of CBOD₅, 15 mg/L TSS, 3 mg/L NH₃-N, 1-4 mg/L chlorine and Escherichia coli (E. coli). Domestic wastewater will be treated by an activated sludge wastewater treatment plant operated in the complete mix mode with nitrification.

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

AGUAS RESIDUALES DOMESTICAS /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.

LH Ranch, LTd. (CN Pendiente) propone operar la Planta de Tratamiento de Aguas Residuales No. 1 del Distrito de Servicios Públicos Municipales del Condado Liberty No. 6 RN Pendiente, una planta de concreto que va a consistir en una (1) plataforma elevada, tres (3) tanques de aeración, tres (3) clarificadores finales, seis (6) digestores aeróbicos, y tres (3) tanques de contacto de cloro. La instalación estará ubicada en aproximadamente 2.41 miles sureste de la intersección del Grand Parkway and Plum Grove Road, en Huffman, Condado de Liberty, Texas 77336. Esta solicitud es para una nueva Sistema de Eliminación de Vertidos Contaminantes de Texas (TPDES) permiso para la descarga de aguas residuales tratadas a un volumen de promedio diario de 760,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno de cinco días (CBOD5) de 10 miligramos por litro (mg/L), sólidos suspendidos totales (SST) de 15 mg/L, nitrógeno amoniacal (NH3-N) de 3 mg/L, clorina de 1 a 4 mg/L, y Escherichia coli (E. coli). Las aguas residuales domesticas. **estará** tratado por una planta de proceso de lodos activados operada en modo de mezcla completa.

Attachment 3 – Public Involvement Plan Form
(Corresponds to Administrative Report 1.0, Section 8.G, Page 8 of 18)



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

- ☒ New Permit or Registration Application
☐ New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

- ☒ Requires public notice,
☐ Considered to have significant public interest, and
☐ Located within any of the following geographical locations:

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

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

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

A new wastewater treatment plant is being built to serve a new development. The proposed wastewater treatment plant is not listed in any of the geographical locations listed above and nearby wastewater treatment plant applications have not had significant public interest.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V
Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)
☐ Texas Land Application Permit (TLAP)
☐ State Only Concentrated Animal Feeding Operation (CAFO)
☐ Water Treatment Plant Residuals Disposal Permit
☐ Class B Biosolids Land Application Permit
☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water
☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water
☐ Add a New or Existing Reservoir
☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)

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

☐

City

☐

County

☐

Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

- ☐ TCEQ Regional Office ☐ TCEQ Central Office
- ☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

Attachment 4 – Corresponding List of Downstream and Surrounding Landowners

(Corresponds to Administrative Report 1.1, Section 1.B, Page 13 of 18)

Attachment 4 - Corresponding List of Downstream and Surrounding Landowners

(Corresponds to Administrative Report 1.0, Section 1.B, Page 12 of 17)

Parcel ID	Current Owner	Mailing Address	City	State	Zip Code
0976160000188	AINSWORTH MARGARET	26 MEYER RD	HUFFMAN	TX	77336-3103
1151560020017	ALY CONSTRUCTION	6447 EARLY FALL DR	HUMBLE	TX	77338-6232
0420070000040	AMC SHOPPING CENTER INC	5415 ALDINE MAIL RD	HOUSTON	TX	77039-4921
0976160000012	ANDERSON BRIAN D & LISA	12 MEYER RD	HUFFMAN	TX	77336-3103
1142840000017	ANZORA VICTOR O	10 THOMAS LN	HUFFMAN	TX	77336-3006
1151560020002	ARGUETA MARILU	510 BELLMAR DR	HOUSTON	TX	77037-4004
0976160000006	ARIF RAHYAB	10934 TULIP GARDEN CT	HOUSTON	TX	77065-3229
1142840000006	ASTOLFO ANTHONY J	4A DAVIDSON LN	HUFFMAN	TX	77336-3000
0976160000001	BIBBUS WILLIAM G JR	2 MEYER RD	HUFFMAN	TX	77336-3103
1151540030025	BLAIRBROUSSARD SARA	174 BIRCHWOOD DR	HUFFMAN	TX	77336-3200
0976160000186	BLALOCK SAMUEL & TERRI	16 MEYER RD	HUFFMAN	TX	77336-3103
1151560020006	BUCK COLIGNY	208 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
0420070080002	BULLARD BOBBIE J	109 GENE MATHES RD	ELIZABETHTON	TN	37643-7703
1154250040007	BULLARD LORRAINE GARNETT	352 BIRCHWOOD DR	HUFFMAN	TX	77336-3202
1142840000051	CALDERON SILVESTRE G	15 THOMAS LN	HUFFMAN	TX	77336-3006
0420090000053	CANEY PARK	23490 FM 1485 RD	NEW CANEY	TX	77357-7334
242303	CASTELLANOS NILSON ESMITH GOMEZ	3503 LEMON TREE LANE	HOUSTON	TX	77088
255324	CASTLE FIELDS LLC	4300 SUNSET VIEW DR	DUBLIN	CA	94568
1151540030019	CHANCE HOLDINGS LTD	7544 FM 1960 RD E # 38	HUMBLE	TX	77346-3127
1151540030020	CHANCE HOLDINGS LTD	7544 FM 1960 RD E #38	HUMBLE	TX	77346
30769	CH-B KINGLAND LLC	1111 WEST 11TH ST	AUSTIN	TX	78703
242707	COLONY RIDGE DEVELOPMENT LLC	PO BOX 279	FRESNO	TX	77545
0976160000014	COMPEAN GENESIS YAMILET	15 MEYER RD	HUFFMAN	TX	77336-3103
1151570040004	CONK CHRISTOPHER K & AMANDA M	296 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
0976160000191	COOK DANNY & VICKI	35 MEYER RD	HUFFMAN	TX	77336-3104
1151560020012	COOPER MONICA M	228 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
1151560020024	CREW TOMMY JOE & JESSICA RENE	212 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
1151560020014	CRUZAN DAVID A	240 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
0420090020022	CURRENT OWNER	29410 COMMONS SUPERIOR DR	HUFFMAN	TX	77336-2992
0976160000023	CURRENT OWNER	25 MEYER RD	HUFFMAN	TX	77336-3103
0976160000028	CURRENT OWNER	28 MEYER RD	HUFFMAN	TX	77336-3103
0976160000162	CURRENT OWNER	36 MEYER RD	HUFFMAN	TX	77336-3104
1142840000019	DAVILA HECTOR ALEXIS	3652 HOG MOUNTAIN RD	DACULA	GA	30019-1116
1142840000018	DERISO DUSTIN & DANIELLE	22615 E SHOREWOOD LOOP	HUFFMAN	TX	77336-2542
255324	DGN CAPITAL MANAGEMENT LLC	2600 LEAFSPRAY LANE	FLOWER MOUND	TX	75022
0976160000032	EMERY JIM E & CONNIE	33 MEYER RD	HUFFMAN	TX	77336-3104

1151570040009	EVANS JOHN W & LUZ	312 BIRCHWOOD DR	HUFFMAN	TX	77336
0976160000187	FARQUHAR DONALD & CAROLYN	23 MEYER RD	HUFFMAN	TX	77336-3103
255324	FINSOL LLC	2805 MERRYGLEN	FLOWER MOUND	TX	75022
1151560020016	FISCHER HILTON H	14335 LOURDES DR	HOUSTON	TX	77049-4121
1151540030016	GARCIA JULIO	102 BIRCHWOOD DR	HUFFMAN	TX	77336-3200
1151540030015	GARCIA JULIO & NORA G	12344 INDUSTRIAL RD	HOUSTON	TX	77015-6643
242304	GOMEZ NILSON E	3503 LEMON TREE LANE	HOUSTON	TX	77088
1151570040012	GONZALEZ AMADOR JR & SONJA	380 BIRCHWOOD DR	HUFFMAN	TX	77336-3202
1142840000008	GONZALEZ RODOLFO & CHRISTINE	5A DAVIDSON LN	HUFFMAN	TX	77336-3000
0420090020023	GRAMMAR TERRIE L	25200 NORTHWOOD COUNTRY LN	HUFFMAN	TX	77336-3004
1151540030026	GRIFFIN TIMA A & WILLIAM T	182 BIRCHWOOD DR	HUFFMAN	TX	77336
242320	GUZMAN SALVADOR VEGA &	74 ROAD 3572	CLEVELAND	TX	77327
0420090000279	HANNEMANN MARK	1100 BOHLSSSEN WAY	NEW CANEY	TX	77357-7840
1142840000015	HARDIN KENNETH R SR & ROSE	9BTHOMAS LN	HUFFMAN	TX	77336-
105211	HARRIS COUNTY FLOOD CONTROL DIST	9900 NORTHWEST FWY SU 220	HOUSTON	TX	77092
0431960000013	HARRIS COUNTY FLOOD CONTROL	9900 NORTHWEST FWY	HOUSTON	TX	77092-8601
1142840000009	HOLCOMB JAMES A & SANDRA A	73 DAVIDSON LN	HUFFMAN	TX	77336-3000
0420070000037	HUFFCLEVE PROPERTIES LLC	3914 GARNET FLS	SUGAR LAND	TX	77479-4163
0481460000002	K & S CONCEPTS INC	1724 KRENEK RD	CROSBY	TX	77532-6362
1142840000012	KIDD MAX G & KAREN H	7 DAVIDSON LN	HUFFMAN	TX	77336-3000
1154250040003	LAXSON DOYLE MATHEW & BRIDGETTE	340 BIRCHWOOD DR	HUFFMAN	TX	77336
1154250040005	LAXSON PATRICK E & DIANA	351 BIRCHWOOD DR	HUFFMAN	TX	77336-3205
1154250040006	LAXSON PATRICK E & EDNA D	348 BIRCHWOOD DR	HUFFMAN	TX	77336
1142840000011	LEBLANC CARYL	6 DAVIDSON LN	HUFFMAN	TX	77336-3000
0976160000198	LH RANCH LTD	500 W 5TH ST SUITE 700	AUSTIN	TX	78701-3833
0976160000010	LOPER WADE E & BRIDGET	10 MEYER RD	HUFFMAN	TX	77336-3103
1151560020022	MACKEY TRISHIA	272 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
1151560020003	MAINORD ROBERT C & KRISTEN	200 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
1327090010001	MARTIN GERALD	PO BOX 1588	HUFFMAN	TX	77336-1588
1142840000007	MARTINEZ MARIO ALBERTO VASQUEZ	4B DAVIDSON LN	HUFFMAN	TX	77336-3000
255324	MEGHASAAAN LLC	9001 FOX HOLLOW TRAIL	IRVING	TX	75063
1151560020001	MONTES HARVEY R	186 BIRCHWOOD ST	HUFFMAN	TX	77336-3200
0976160000017	MOORE CARL	1806 EASTHAVEN DR	PASADENA	TX	77506-5116
0420090020001	MOREN ROBBIE L	25201 NORTHWOOD COUNTRY LN	HUFFMAN	TX	77336-3007
1142840000016	MORROW PETER T	10 THOMAS LN UNIT A	HUFFMAN	TX	77336
1142840000085	MORROW PETER T	10A THOMAS LN	HUFFMAN	TX	77336-3006
0420090000044	MORTON THERESA A	31650 BOHLSSSEN RD	NEW CANEY	TX	77357-7837
1151540030023	NEDEDOG JIMMY J	154 BIRCHWOOD DR	HUFFMAN	TX	77336
1142840000014	NEWMAN JAMES	7 THOMAS LN	HUFFMAN	TX	77336-3006

	NUNEZ SHELSY ALEXANDRA & CRISTIAN				
242302	ZAIR INESTROZA GODOY	464 ROAD 5202	CLEVELAND	TX	77327
255324	OSCARMILLO LLC	15283 JAPANESE MAPLE LANE	FRISCO	TX	75035
1142840000004	OWENS CONNIE & MICHAEL A	64 DAVIDSON LN	HUFFMAN	TX	77336-3000
1151560020018	PALMER WILLIAM	PO BOX 1385	HUFFMAN	TX	77336
0482600000001	PARKS & WILDLIFE	ADDRESS UNKNOWN	HUMBLE	TX	
242306	PARRA JAIME	9623 SHADY TREE LANE	HOUSTON	TX	77086
255324	PATEL & PATEL LLC	2422 NEW CASTLE BEND	IRVING	TX	75063
0402820000001	PEMMASANI HUFFMAN INVESTMENTS LLC	9111 CYPRESS WATERS BLVD STE 300	COPPELL	TX	75019-4858
		9111 CYPRESS WATERS BLVD SUITE			
15712	PEMMASANI HUFFMAN INVESTMENTS LLC	300	COPPELL	TX	75019
		9111 CYPRESS WATERS BLVD SUITE			
280200	PEMMASARI HUFFMAN INVESTMENTS LLC	300	COPPELL	TX	75019
1151560020015	PEREZ SAUL RUBIO	1915 RUELLLEN LN	HOUSTON	TX	77038-1778
0976160000013	POLLOCK ROGER KEITH	13 MEYER RD	HUFFMAN	TX	77336-3103
255324	POONURU LLC	2904 SHADY CREEK DR	FLOWER MOUND	TX	75022
255324	RAAC INVESTMENTS LLC	1108 RANCH VISTA DR	IRVING	TX	75063
0976160000038	REDDICK CECILIA ESTATE OF	226 WATERWOOD DR	HUFFMAN	TX	77336-4237
0976160000027	REEDER AUSTIN B	27 MEYER RD	HUFFMAN	TX	77336-3103
242312	REESE COLLIN I	5316 LORRAINE DRIVE	BAYTOWN	TX	77521
1151560020008	ROANE PRESTON II & AMANDA R	220 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
1151560020025	ROANE PRESTON K & AMANDA R	220 BIRCHWOOD DR	HUFFMAN	TX	77336-3201
1142840000010	RODELA MARIO M	18 DAVIDSON LN	HUFFMAN	TX	77336-3000
0420090000030	RODRIGUEZ ERNEST	19503 FOREST FERN DR	HUMBLE	TX	77346-1939
255324	ROLLNIR LLC	428 LOMA ALTA DR	FRISCO	TX	75036
1151540030017	RUTH RUSSELL & PATRICIA	111 BIRCHWOOD DR	HUFFMAN	TX	77336
1151540030013	SALAS MOISES	111 TALL OAKS DR	HUFFMAN	TX	77336
242313	SALINAS BELQUI ETELBINA &	9418 JAYWOOD DRIVE	HOUSTON	TX	77040
1151540030024	SANCHEZ MAURCIO	160 BIRCHWOOD DR	HUFFMAN	TX	77336-3200
255324	SAPTARSH INVESTMENTS GROUP LLC	14033 STARS RD	FRISCO	TX	75035
1142840000072	SHIPP WILLIAM L	7 NORTHWOOD COUNTRY LN	HUFFMAN	TX	77336-3011
255324	SIDDA HOLDINGS LLC	2909 SHADY CREED DR	FLOWER MOUND	TX	75022
255324	SIX OAKS VENTURES LLC	14641 OVERLAND PARK LANE	FRISCO	TX	75035
1142840000013	SMITH ROBIN	8 DAVIDSON LN	HUFFMAN	TX	77336-3000
1142840000003	SPECK MICHAEL A & SUSAN	2 DAVIDSON LN # B	HUFFMAN	TX	77336-3000
1151540030012	SPRAY ROBERT W SR & PAMELA	120 TALL OAKS DR	HUFFMAN	TX	77336-3246
255324	STAD INVESTMENTS LLC	1060 VALLEY VISTA DR	IRVING	TX	75063
1414890010001	SVENSSON KAYLA & BENJAMIN	513 NORTHWOODS COUNTRY RD	HUFFMAN	TX	77336-
0976160000007	SWEENEY KAREN J	1292 VZ COUNTY ROAD 2404	CANTON	TX	75103-4046
0976160000030	SYNN SAMUEL & CHRISTINE	14402 MEREDITH GATE CIR	HOUSTON	TX	77044-5053

1151540030022	TEDFORD THEODORE & DIANA	144 BIRCHWOOD DR	HUFFMAN	TX	77336-3200
1151540030021	TEDFORD THEODORE R	144 BIRCHWOOD DR	HUFFMAN	TX	77336-3200
0976160000021	TERRAZAS MANUEL A JR & CANDACE A	21 MEYER RD	HUFFMAN	TX	77336-3103
242311	TOVAR CARLOS HERRERA &	7514 PARK PLACE BOULEVARD	HOUSTON	TX	77087
0420070080004	TURNER JAMIE L & DOUGLAS JAMES	3614 VILLAGE PINE DR	KINGWOOD	TX	77339-1913
255324	VENSUYA LLC	1008 SADDLE TREE TRAIL	IRVING	TX	75063
0420090020020	WHITLEY CHRIS & SHANNON	19816 SCOTT GARDNER RD	NEW CANEY	TX	77357-6738
0420090020021	WHITLEY CHRIS & SHANNON	1111 NORTHWOOD COUNTRY LN	HUFFMAN	TX	77336-
0420090000045	WOOD DONNA E	31626 BOHLSEN RD	NEW CANEY	TX	77357-7837
1151570040001	ZIMMERMAN VINCENT & MAYLYN	294 BIRCHWOOD DR	HUFFMAN	TX	77336-3201

**Attachment 4A – Labels of Downstream and Surrounding
Landowner Addresses**

(Corresponds to Administrative Report 1.1, Section 1.C, Page 13 of 18)

AINSWORTH MARGARET 26 MEYER RD HUFFMAN, TX 77336-3103	ALY CONSTRUCTION 6447 EARLY FALL DR HUMBLE, TX 77338-6232	AMC SHOPPING CENTER INC 5415 ALDINE MAIL RD HOUSTON, TX 77039-4921
ANDERSON BRIAN D & LISA 12 MEYER RD HUFFMAN, TX 77336-3103	ANZORA VICTOR O 10 THOMAS LN HUFFMAN, TX 77336-3006	ARGUETA MARILU 510 BELLMAR DR HOUSTON, TX 77037-4004
ARIF RAHYAB 10934 TULIP GARDEN CT HOUSTON, TX 77065-3229	ASTOLFO ANTHONY J 4A DAVIDSON LN HUFFMAN, TX 77336-3000	BIBBUS WILLIAM G JR 2 MEYER RD HUFFMAN, TX 77336-3103
BLAIRBROUSSARD SARA 174 BIRCHWOOD DR HUFFMAN, TX 77336-3200	BLALOCK SAMUEL & TERRI 16 MEYER RD HUFFMAN, TX 77336-3103	BUCK COLIGNY 208 BIRCHWOOD DR HUFFMAN, TX 77336-3201
BULLARD BOBBIE J 109 GENE MATHES RD ELIZABETHTON, TN 37643-7703	BULLARD LORRAINE GARNETT 352 BIRCHWOOD DR HUFFMAN, TX 77336-3202	CALDERON SILVESTRE G 15 THOMAS LN HUFFMAN, TX 77336-3006
CANEY PARK 23490 FM 1485 RD NEW CANEY, TX 77357-7334	CASTELLANOS NILSON ESMITH GOMEZ 3503 LEMON TREE LANE HOUSTON, TX 77088	CASTLE FIELDS LLC 4300 SUNSET VIEW DR DUBLIN, CA 94568
CHANCE HOLDINGS LTD 7544 FM 1960 RD E # 38 HUMBLE, TX 77346-3127	CHANCE HOLDINGS LTD 7544 FM 1960 RD E #38 HUMBLE, TX 77346	CH-B KINGLAND LLC 1111 WEST 11TH ST AUSTIN, TX 78703
COLONY RIDGE DEVELOPMENT LLC PO BOX 279 FRESNO, TX 77545	COMPEAN GENESIS YAMILET 15 MEYER RD HUFFMAN, TX 77336-3103	CONK CHRISTOPHER K & AMANDA M 296 BIRCHWOOD DR HUFFMAN, TX 77336-3201
COOK DANNY & VICKI 35 MEYER RD HUFFMAN, TX 77336-3104	COOPER MONICA M 228 BIRCHWOOD DR HUFFMAN, TX 77336-3201	CREW TOMMY JOE & JESSICA RENE 212 BIRCHWOOD DR HUFFMAN, TX 77336-3201
CRUZAN DAVID A 240 BIRCHWOOD DR HUFFMAN, TX 77336-3201	CURRENT OWNER 29410 COMMONS SUPERIOR DR HUFFMAN, TX 77336-2992	CURRENT OWNER 25 MEYER RD HUFFMAN, TX 77336-3103

CURRENT OWNER 28 MEYER RD HUFFMAN, TX 77336-3103	CURRENT OWNER 36 MEYER RD HUFFMAN, TX 77336-3104	DAVILA HECTOR ALEXIS 3652 HOG MOUNTAIN RD DACULA, GA 30019-1116
DERISO DUSTIN & DANIELLE 22615 E SHOREWOOD LOOP HUFFMAN, TX 77336-2542	DGN CAPITAL MANAGEMENT LLC 2600 LEAFSPRAY LANE FLOWER MOUND, TX 75022	EMERY JIM E & CONNIE 33 MEYER RD HUFFMAN, TX 77336-3104
EVANS JOHN W & LUZ 312 BIRCHWOOD DR HUFFMAN, TX 77336	FARQUHAR DONALD & CAROLYN 23 MEYER RD HUFFMAN, TX 77336-3103	FINSOL LLC 2805 MERRYGLEN FLOWER MOUND, TX 75022
FISCHER HILTON H 14335 LOURDES DR HOUSTON, TX 77049-4121	GARCIA JULIO 102 BIRCHWOOD DR HUFFMAN, TX 77336-3200	GARCIA JULIO & NORA G 12344 INDUSTRIAL RD HOUSTON, TX 77015-6643
GOMEZ NILSON E 3503 LEMON TREE LANE HOUSTON, TX 77088	GONZALEZ AMADOR JR & SONJA 380 BIRCHWOOD DR HUFFMAN, TX 77336-3202	GONZALEZ RODOLFO & CHRISTINE 5A DAVIDSON LN HUFFMAN, TX 77336-3000
GRAMMAR TERRIE L 25200 NORTHWOOD COUNTRY LN HUFFMAN, TX 77336-3004	GRIFFIN TIMA A & WILLIAM T 182 BIRCHWOOD DR HUFFMAN, TX 77336	GUZMAN SALVADOR VEGA & 74 ROAD 3572 CLEVELAND, TX 77327
HANNEMANN MARK 1100 BOHLSEN WAY NEW CANEY, TX 77357-7840	HARDIN KENNETH R SR & ROSE 9BTHOMAS LN HUFFMAN, TX 77336-	HARRIS COUNTY FLOOD CONTROL DIST 9900 NORTHWEST FWY SU 220 HOUSTON, TX 77092
HARRIS COUNTY FLOOD CONTROL DISTRICT 9900 NORTHWEST FWY HOUSTON, TX 77092-8601	HOLCOMB JAMES A & SANDRA A 73 DAVIDSON LN HUFFMAN, TX 77336-3000	HUFFCLEVE PROPERTIES LLC 3914 GARNET FLS SUGAR LAND, TX 77479-4163
K & S CONCEPTS INC 1724 KRENEK RD CROSBY, TX 77532-6362	KIDD MAX G & KAREN H 7 DAVIDSON LN HUFFMAN, TX 77336-3000	LAXSON DOYLE MATHEW & BRIDGETTE 340 BIRCHWOOD DR HUFFMAN, TX 77336
LAXSON PATRICK E & DIANA 351 BIRCHWOOD DR HUFFMAN, TX 77336-3205	LAXSON PATRICK E & EDNA D 348 BIRCHWOOD DR HUFFMAN, TX 77336	LEBLANC CARYL 6 DAVIDSON LN HUFFMAN, TX 77336-3000

LH RANCH LTD 500 W 5TH ST SUITE 700 AUSTIN, TX 78701-3833	LOPER WADE E & BRIDGET 10 MEYER RD HUFFMAN, TX 77336-3103	MACKEY TRISHIA 272 BIRCHWOOD DR HUFFMAN, TX 77336-3201
MAINORD ROBERT C & KRISTEN 200 BIRCHWOOD DR HUFFMAN, TX 77336-3201	MARTIN GERALD PO BOX 1588 HUFFMAN, TX 77336-1588	MARTINEZ MARIO ALBERTO VASQUEZ 4B DAVIDSON LN HUFFMAN, TX 77336-3000
MEGHASAAN LLC 9001 FOX HOLLOW TRAIL IRVING, TX 75063	MONTES HARVEY R 186 BIRCHWOOD ST HUFFMAN, TX 77336-3200	MOORE CARL 1806 EASTHAVEN DR PASADENA, TX 77506-5116
MOREN ROBBIE L 25201 NORTHWOOD COUNTRY LN HUFFMAN, TX 77336-3007	MORROW PETER T 10 THOMAS LN UNIT A HUFFMAN, TX 77336	MORROW PETER T 10A THOMAS LN HUFFMAN, TX 77336-3006
MORTON THERESA A 31650 BOHLSEN RD NEW CANEY, TX 77357-7837	NEDEDOG JIMMY J 154 BIRCHWOOD DR HUFFMAN, TX 77336	NEWMAN JAMES 7 THOMAS LN HUFFMAN, TX 77336-3006
NUNEZ SHELSY ALEXANDRA & CRISTIAN ZAIR INESTROZA GODOY 464 ROAD 5202 CLEVELAND, TX 77327	OSCARMILO LLC 15283 JAPANESE MAPLE LANE FRISCO, TX 75035	OWENS CONNIE & MICHAEL A 64 DAVIDSON LN HUFFMAN, TX 77336-3000
PALMER WILLIAM PO BOX 1385 HUFFMAN, TX 77336	PARKS & WILDLIFE ADDRESS UNKNOWN HUMBLE, TX	PARRA JAIME 9623 SHADY TREE LANE HOUSTON, TX 77086
PATEL & PATEL LLC 2422 NEW CASTLE BEND IRVING, TX 75063	PEMMASANI HUFFMAN INVESTMENTS LLC 9111 CYPRESS WATERS BLVD STE 300	PEMMASANI HUFFMAN INVESTMENTS LLC 9111 CYPRESS WATERS BLVD SUITE 300
PEMMASARI HUFFMAN INVESTMENTS LLC 9111 CYPRESS WATERS BLVD SUITE 300	PEREZ SAUL RUBIO 1915 RUELLIN LN HOUSTON, TX 77038-1778	POLLOCK ROGER KEITH 13 MEYER RD HUFFMAN, TX 77336-3103
POONURU LLC 2904 SHADY CREEK DR FLOWER MOUND, TX 75022	RAAC INVESTMENTS LLC 1108 RANCH VISTA DR IRVING, TX 75063	REDDICK CECELIA ESTATE OF 226 WATERWOOD DR HUFFMAN, TX 77336-4237

REEDER AUSTIN B 27 MEYER RD HUFFMAN, TX 77336-3103	REESE COLLIN I 5316 LORRAINE DRIVE BAYTOWN, TX 77521	ROANE PRESTON II & AMANDA R 220 BIRCHWOOD DR HUFFMAN, TX 77336-3201
ROANE PRESTON K & AMANDA R 220 BIRCHWOOD DR HUFFMAN, TX 77336-3201	RODELA MARIO M 18 DAVIDSON LN HUFFMAN, TX 77336-3000	RODRIGUEZ ERNEST 19503 FOREST FERN DR HUMBLE, TX 77346-1939
ROLLNIR LLC 428 LOMA ALTA DR FRISCO, TX 75036	RUTH RUSSELL & PATRICIA 111 BIRCHWOOD DR HUFFMAN, TX 77336	SALAS MOISES 111 TALL OAKS DR HUFFMAN, TX 77336
SALINAS BELQUI ETELBINA & 9418 JAYWOOD DRIVE HOUSTON, TX 77040	SANCHEZ MAURCIO 160 BIRCHWOOD DR HUFFMAN, TX 77336-3200	SAPTARSH INVESTMENTS GROUP LLC 14033 STARS RD FRISCO, TX 75035
SHIPP WILLIAM L 7 NORTHWOOD COUNTRY LN HUFFMAN, TX 77336-3011	SIDDA HOLDINGS LLC 2909 SHADY CREED DR FLOWER MOUND, TX 75022	SIX OAKS VENTURES LLC 14641 OVERLAND PARK LANE FRISCO, TX 75035
SMITH ROBIN 8 DAVIDSON LN HUFFMAN, TX 77336-3000	SPECK MICHAEL A & SUSAN 2 DAVIDSON LN # B HUFFMAN, TX 77336-3000	SPRAY ROBERT W SR & PAMELA 120 TALL OAKS DR HUFFMAN, TX 77336-3246
STAD INVESTMENTS LLC 1060 VALLEY VISTA DR IRVING, TX 75063	SVENSSON KAYLA & BENJAMIN 513 NORTHWOODS COUNTRY RD HUFFMAN, TX 77336-	SWEENEY KAREN J 1292 VZ COUNTY ROAD 2404 CANTON, TX 75103-4046
SYNN SAMUEL & CHRISTINE 14402 MEREDITH GATE CIR HOUSTON, TX 77044-5053	TEDFORD THEODORE & DIANA 144 BIRCHWOOD DR HUFFMAN, TX 77336-3200	TEDFORD THEODORE R 144 BIRCHWOOD DR HUFFMAN, TX 77336-3200
TERRAZAS MANUEL A JR & CANDACE A 21 MEYER RD HUFFMAN, TX 77336-3103	TOVAR CARLOS HERRERA & 7514 PARK PLACE BOULEVARD HOUSTON, TX 77087	TURNER JAMIE L & DOUGLAS JAMES 3614 VILLAGE PINE DR KINGWOOD, TX 77339-1913
VENSUYA LLC 1008 SADDLE TREE TRAIL IRVING, TX 75063	WHITLEY CHRIS & SHANNON 19816 SCOTT GARDNER RD NEW CANEY, TX 77357-6738	WHITLEY CHRIS & SHANNON 1111 NORTHWOOD COUNTRY LN HUFFMAN, TX 77336-

[illegible]

Attachment 5 – Supplemental Permit Information Form
(Corresponds to Administrative Report 1.1, Page 15 of 18)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

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

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

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

The following applies to all applications:

1. Permittee: LH Ranch, Ltd.

Permit No. WQ00 Pending

EPA ID No. TX

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

Approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road in Huffman, Texas in Liberty County.

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

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

First and Last Name: Krystal Regner

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

Title: Project Manager

Mailing Address: 10011 Meadowglen Lane

City, State, Zip Code: Houston, TX 77042

Phone No.: 713.784.4500 Ext.:

Fax No.:

E-mail Address: kregner@ehra.team

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

NOT APPLICABLE.

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

The effluent will discharge from the WWTP to Camp Branch West Fork; then to Luce Bayou Segment 1002B; then to Lake Houston.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

Construction of a wastewater treatment plant including approximately 3.5 acres of clearing. Construction of a common wall concrete treatment plant, concrete foundations for blowers, chemical tanks, approximately 30 feet of excavation for one on-site lift station, and an access road.

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

The existing land use is mostly grassland with some shrubs and trees.

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

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

There are currently no buildings or structures on the property.

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

The proposed WWTP will be located on a 850-acre piece of property. The property currently is mostly grassland with some shrubs and trees. LH Ranch, Ltd. is the proposed developer of the land.

Attachment 5A – Treatment Units

(Corresponds to Technical Report 1.0, Section 2.B Page 2 of 66)

Attachment 5A – Treatment Units

(Corresponds to Technical Report 1.0, Item 2.B, Table 1.0(1), Page 2 of 66)

Phase I – 0.26 MGD

Treatment Unit	No. of Units	Dimensions (L x W x SWD)
Aeration Basin	1	30'-0" x 34'-0" x 18'-0"
Digester Basin	2	22'-0" x 16'-3" x 18'-0"
Final Clarifier	1	34'-0" DIA x 16'-0"
Chlorine Contact Basin	1	5'-0" x 34'-0" x 17'-0"

Interim Phase – 0.52 MGD

Treatment Unit	No. of Units	Dimensions (L x W x SWD)
Aeration Basin	2	30'-0" x 34'-0" x 18'-0"
Digester Basin	4	22'-0" x 16'-3" x 18'-0"
Final Clarifier	2	34'-0" DIA x 16'-0"
Chlorine Contact Basin	2	5'-0" x 34'-0" x 17'-0"

Final Phase – 0.78 MGD

Treatment Unit	No. of Units	Dimensions (L x W x SWD)
Aeration Basin	3	30'-0" x 34'-0" x 18'-0"
Digester Basin	6	22'-0" x 16'-3" x 18'-0"
Final Clarifier	3	34'-0" DIA x 16'-0"
Chlorine Contact Basin	3	5'-0" x 34'-0" x 17'-0"

Attachment 6 – Sewage Sludge Solid Management Plan
(Corresponds to Technical Report 1.1, Section 1.F, Page 8 of 66)

Sludge Management Plan for Proposed LC MUD No. 6 No. 1 WWTP

Influent Design Flow: Phase 1 - 0.26 MGD
Phase 2 - 0.52 MGD
Phase 3- 0.78 MGD

Influent BOD Concentration: 300 mg/L

		cu. ft.	gal
Aerobic Digester Volume:	Phase 1:	12,870	96,268
	Phase 2:	25,740	192,535
	Phase 3:	38,610	288,803

Aeration Basin MLSS: 2,000 to 3,000 mg/L

Table 1 - Sludge Production (Phase 1)

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD5	651	488	325	163
Pounds of digested dry sludge produced*	228	171	114	57
Pounds of wet sludge produced	11,391	8,544	5,696	2,848
Gallons of wet sludge produced	1,358	1,018	679	339

Table 2 - Sludge Production (Phase 2)

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD5	1,302	976	651	325
Pounds of digested dry sludge produced*	456	342	228	114
Pounds of wet sludge produced	22,783	17,087	11,391	5,696
Gallons of wet sludge produced	2,715	2,037	1,358	679

Table 3 - Sludge Production (Phase 3)

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds Influent BOD5	1,953	1,465	976	488
Pounds of digested dry sludge produced*	683	513	342	171
Pounds of wet sludge produced	34,174	25,631	17,087	8,544
Gallons of wet sludge produced	4,073	3,055	2,037	1,018

* Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD5 at average temperatures and 2.0% solids concentration in the digester.

Sludge will be wasted from the RAS flow stream to the aerobic digester. Sludge solids will be stabilized in the digester; supernatant will be decanted from the digester and returned to the facility headworks for treatment.

Table 3 - Sludge Removal Schedule

Removal Schedule (Days)	100% Flow	75% Flow	50% Flow	25% Flow
Days between Sludge Removal (Phase 1)	71	95	142	284
Days between Sludge Removal (Phase 2)	71	95	142	284
Days between Sludge Removal (Phase 3)	71	95	142	284

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. In phase 1, the calculated mean cell residence time (MCRT) for the digester storage volume of 96,268 gal will be approximately 71 days at 100% capacity and annual average digested sludge production of 228 ppd. In phase 2, the calculated mean cell residence time (MCRT) for the digester storage volume of 192,535 gal will be approximately 71 days at 100% capacity and annual average digested sludge production of 456 ppd. In phase 3, the calculated mean cell residence time (MCRT) for the digester storage volume of 288,803 gal will be approximately 71 days at 100% capacity and annual average digested sludge production of 683 ppd. The digested sludge will be transported by a registered hauler to be determined.

Attachment 7 – Regionalization Correspondence

(Corresponds to Technical Report 1.1, Section 3, Page 20 of 66)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Utilities Investment Company, Inc.
Shannon Marsh
PO Box 279
New Waverly, TX 77358



9590 9402 9250 4295 2070 32

2. Article Number (Transfer from service label)

9489 0090 0027 6550 9028 07

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Sharon Kelley ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Sharon Kelley

C. Date of Delivery

3-14-25

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

(7) Insurance \$500

Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Texas Water Utilities LP
c/o Shelley Young, P.E.
Water Engineers, Inc.
17230 Huffmeister Road
Cypress, TX 77429



9590 9402 9250 4295 2070 63

2. Article Number (Transfer from service label)

9489 0090 0027 6550 9027 84

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Daniel Holub ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Daniel Holub

C. Date of Delivery

3/13/25

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
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ENGINEERING THE FUTURE
SINCE 1936

TBPE No. F-726
TBPLS No. 10092300

March 11, 2025

Via Certified Mail
Article No. 9489 0090 0027 6550 9027 91

Saint-Tropez Laguna Azure LLC
c/o Jonathan Nguyen
Quiddity Engineering
6330 West Loop South, Suite 150
Bellaire, Texas 77401

Re: Liberty County Municipal Utility District No. 6
Proposed 0.76 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 071-069-21

Dear Jonathan Nguyen,

Endeavor Real Estate Group Ltd. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.76 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not St. Tropez Wastewater Treatment Facility (WQ0016164001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.76 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.76 MGD.


Kirsten K. Wilson, PE
LJA Engineering, Inc.

Name

3-18-2025

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, TX 77042 or via email at svallejo@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely, 

Susy Vallejo, E.I.T.
Engineer III
Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm
Jared Bowlin, P.E. – Firm



ENGINEERING THE FUTURE
SINCE 1936

TBPE No. F-726
TBPLS No. 10092300

March 11, 2025

Via Certified Mail

Article No. 9489 0090 0027 6550 9027 77

Harris County Municipal Utility District No. 514
c/o Cody Christoph, President of Board of Directors
1300 Post Oak Boulevard, Suite 2400
Houston, Texas 77056

Re: Liberty County Municipal Utility District No. 6
Proposed 0.76 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 071-069-21

RECEIVED
MAR 14 2025
SCHWARTZ, PAGE & HARDING, L.L.P.

Dear Cody Christoph,

Endeavor Real Estate Group Ltd. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.76 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Harris County MUD 514 Wastewater Treatment Facility (WQ0016292001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.76 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.76 MGD.

Brent R. Dahl, PE

Name

3/18/25

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, TX 77042 or via email at svallejo@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Susy Vallejo, E.I.T.

Engineer III

Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm
Jared Bowlin, P.E. – Firm



ENGINEERING THE FUTURE
SINCE 1936

TBPE No. F-726
TBPLS No. 10092300

March 20, 2025

Via Certified Mail

Article No. 9489 0090 0027 6550 9028 83

Texas Water Utilities LP
2150 Town Square Place, Suite 400
Sugarland, Texas 77479

Re: Liberty County Municipal Utility District No. 6
Proposed 0.76 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 071-069-21

To whom it may concern,

Endeavor Real Estate Group Ltd. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.76 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Kingland Central Wastewater Treatment Facility (WQ0016399001) has sufficient treatment and collection system capacity to accept this additional flow.

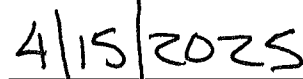
☐ **YES**, our WWTP can accept the additional 0.76 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.76 MGD.

We would be happy to discuss modification but do not currently have 0.76 MGD additional capacity.



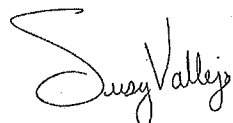
Name



Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, TX 77042 or via email at svallejo@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,



Susy Vallejo, E.I.T.
Engineer III
Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm
Jared Bowlin, P.E. – Firm



TBPE No. F-726
TBPLS No. 10092300

March 11, 2025

Via Certified Mail
Article No. 9489 0090 0027 6550 9027 84

Texas Water Utilities LP
c/o Shelley Young, P.E.,
WaterEngineers, Inc.
17230 Huffmeister Road
Cypress, Texas 77429

Re: Liberty County Municipal Utility District No. 6
Proposed 0.76 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 071-069-21

Dear Shelley Young,

Endeavor Real Estate Group Ltd. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.76 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Los Pinos Wastewater Treatment Facility (WQ0015830001) has sufficient treatment and collection system capacity to accept this additional flow.


☐ **YES**, our WWTP can accept the additional 0.76 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.76 MGD.

Name

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, TX 77042 or via email at svallejo@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely, 

Susy Vallejo, E.I.T.
Engineer III
Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm
Jared Bowlin, P.E. – Firm



TBPE No. F-726
TBPLS No. 10092300

March 11, 2025

Via Certified Mail
Article No. 9489 0090 0027 6550 9028 07

Utilities Investment Company, Inc.
Shannon Marsh
P.O. Box 279
New Waverly, Texas 77358

Re: Liberty County Municipal Utility District No. 6
Proposed 0.76 MGD Wastewater Treatment Plant (WWTP)
New TPDES Permit Application
EHRA Project No. 071-069-21

Dear Shannon Marsh,

Endeavor Real Estate Group Ltd. is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.76 million gallons per day (MGD), to serve a new residential subdivision. As part of the permitting process, the Texas Commission on Environmental Quality (TCEQ) requires each applicant to contact all wastewater treatment plant owners within a three (3) mile radius to determine if treatment and collection capacity is available.

Please indicate below whether or not Santa Fe Wastewater Treatment Facility (WQ0015646001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.76 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.76 MGD.

Name

Date

Your timely response to this matter is greatly appreciated and can be directed to my attention via return mail at 10011 Meadowglen Lane, Houston, TX 77042 or via email at svallejo@ehra.team. Please feel free to contact me at (713) 784-4500, if you have any questions or concerns.

Sincerely,

Susy Vallejo, E.I.T.
Engineer III
Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm
Jared Bowlin, P.E. – Firm

Attachment 8 – Design Calculations

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

PROJECT: Liberty County MUD No. 1 WWTP No. 1
0.26 MGD WWTP PHASE I

FINAL CLARIFIERS

3/30/2025

ENGINEER: EHRA, Inc.
10011 Meadowglen Lane
Houston, TX 77042

Krystal Regner, P.E. 713-784-4500 office
Susy Vallejo, E.I.T.

kregner@ehra.team
svallejo@ehra.team

DESIGN REQUIREMENTS:

The Wastewater Treatment Plant shall be constructed in three (3) Trains, each consisting of a 0.26 MGD (ADF) common wall, Complete Mix Activated Sludge WWTP, for a total ultimate plant capacity of **0.78 MGD**. Phase I shall consist of one (1) process trains, with the remaining trains constructed in later project phases. The Process will be designed for Single Stage Nitrification with capacity for future Biological Denitrification. Design Basis shall be current TCEQ Chapter 217 Rules
The WWTP main process trains shall incorporate all new concrete tankage.

Ultimate Phase Conditions:

AVERAGE DAILY FLOW	=	0.78	MGD	=	541.67 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	3.12	MGD	=	2,166.67 GPM

Phase II Flow Conditions:

AVERAGE DAILY FLOW	=	0.520	MGD	=	361.11 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	2.08	MGD	=	1,444.44 GPM

Phase I Flow Conditions:

AVERAGE DAILY FLOW	=	0.260	MGD	=	180.56 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	1.04	MGD	=	722.22 GPM
		1,040,000	GPD		

Influent Loadings

BOD	=	300
TSS	=	250
NH3	=	45

DISCHARGE PERMIT LIMITS

BOD	=	10	MG / L	
TSS	=	15	MG / L	
NH3	=	3	MG / L	
O2	=	4	MG / L	Oxygen residual
Chlorine Residual	=	1	MG / L	after 20 minutes contact time



CLARIFIER PROCESS DESCRIPTION

THE MAXIMUM FINAL CLARIFIER SURFACE LOADING SHALL BE:

LESS THAN **1,200** GPD PER SQ. FT AT PEAK 2-HOUR FLOW

RETURN ACTIVATED SLUDGE FLOW

MIN FLOW = **200** GALS PER DAY PER SQ. FT OF CLARIFIER AREA

MAX FLOW = **400** GALS PER DAY PER SQ. FT OF CLARIFIER AREA

FINAL CLARIFIER WEIR LOADINGS SHALL NOT EXCEED **20,000**
PER LINEAR FOOT OF WEIR LENGTH

FINAL CLARIFIER MINIMUM DETENTION TIME SHALL BE

2.2 HOURS AT PEAK 2-HOUR FLOW

FINAL CLARIFIER DESIGN: (Each Train)

AREA REQ'D = (PEAK 2-HR FLOW) / (1200 GPD/SF)

AREA REQ'D = 866.67 SQ. FT

DIA = 33.22 FT

DETERMINE MINIMUM WEIR LENGTH

MAXIMUM LOADING RATE = 20,000 GPD/FT WEIR

MINIMUM WEIR LENGTH = (PEAK 2-HOUR FLOW) / (LOADING RATE)

MINIMUM WEIR LENGTH = 52.00 FEET

WEIR DIAMETER = 16.55 FEET

PEAK FLOW OVERFLOW RATE GOVERNS FOR CLARIFIER SIZING

PROVIDE ONE (1) 34.00 FOOT DIAMETER FINAL CLARIFIERS PER TRAIN

CHECK DETENTION TIME OF FINAL CLARIFIER

AT PEAK 2-HOUR FLOW = 1.0 MGD = 722 GPM

AT DESIGN FLOW = 0.26 MGD = 181 GPM

ASSUME SIDE WATER DEPTH OF CLARIFIER = 16.0 FEET

VOLUME OF CLARIFIER = (AREA OF CLARIFIER) * (DEPTH)

VOLUME OF CLARIFIER = 14,451.06 CUBIC FEET

VOLUME OF CLARIFIER = 108,093.96 GALLONS

DETENTION TIME = TOTAL VOLUME / FLOW RATE

DETENTION TIME AT PEAK 2-HOUR FLOW = 149.67 MINS

DETENTION TIME AT PEAK 2-HOUR FLOW = 2.49 HRS

PROJECT: Liberty County MUD No. 1 WWTP No. 1
0.26 MGD WWTP PHASE I
(Calculations for one (1) train)

PROCESS AERATION 4/10/2025

DESIGN REQUIREMENTS:

FLOW CONDITIONS:

AVERAGE DAILY FLOW = 0.260 MGD = 181 GPM
PEAK 2-HOUR FLOW = 1.040 MGD = 722 GPM

INFLUENT LOADINGS:

BOD = 300.00 8.34 0.260 = 650.52 lbs/day
TSS = 250.00 8.34 0.260 = 542.1 lbs/day
NH3 = 45.00 8.34 0.260 = 97.578 lbs/day

PROCESS AERATION BASIN SIZING:

MAXIMUM ORGANIC LOADING FOR SINGLE STAGE NITRIFICATION PROCESS

REQ'D VOLUME = 35 LBS/DAY BOD/ 1000 CF TANKAGE
18,586 cf

CHECK THE F:M RATIO WITH MLSS = 2000 MG / L
F:M = $\frac{[(\text{LBS PER DAY BOD}) * (1,000,000)]}{[(\text{VOL PROVIDED})]}$
F:M = $\frac{(7.48) * (8.34) * (2000)}{}$ 0.23 GOOD!

PHYSICAL ARRANGEMENT OF AERATION BASIN:

WHAT IS INSIDE DIAMETER OF FINAL CLARIFIER? 34 ft
PROPOSED SIDE WATER DEPTH OF AERATION TANK 18 ft

CALCULATE AREA OF CORNERS

d = inside diameter = b + a + b = 34.00 feet
n = number of sides of polygon = 6.00
angle = $(180 \text{ degrees}) / (n)$ = 30.00 degrees
Tan angle = $\tan (22.5 \text{ degrees})$ = 0.41
R1 = radius = diameter / 2 = 17.00 feet
a = $(2) (\tan 22.5 \text{ degrees}) (R1)$ = 14.08 feet
b = $(\text{diameter} - a) / (2)$ = 9.96 feet
Area of each corner = 49.62 sf

DETERMINE AREA OF AERATION BASINS

AREA = REQUIRED BASIN VOLUME / SIDE WATER DEPTH
AREA REQUIRED FOR AERATION BASIN = 1032.57 SF
AREA OF EACH CORNER = 49.62 SF
AREA REQUIRED FOR RECTANGLE = 933.33 SF

DETERMINE LENGTH OF AERATION BASIN

WIDTH OF RECTANGLE = 34 FEET
LENGTH OF RECTANGLE = 27.45 FEET Use 30 FT

AERATION BASIN VOLUME: 20,146 CF
TOTAL AERATION VOLUME: 22,594 CF INCLUDES RAPID MIX
MORE THAN REQ'D VOLUME OF 18,586 CF OK

PROCESS AERATION EQUIPMENT SIZING:

$$\begin{array}{lcl} \text{MINIMUM O}_2 \text{ REQ'D} & = & 2.2 \text{ \# O}_2 \text{/\# BOD5/day} \\ \text{O}_2 \text{ REQ'D} & = & 1431.14 \text{ \#/day} \end{array}$$

$$\begin{array}{lcl} \text{CLEAN WATER TRANSFER EFFICIENCY} & = & 11.25\% \text{ (CWTE)} \\ \text{USE TCEQ CLEAN TO DIRTY WATER CORRECTION FACTOR:} & & 0.65 \\ \text{AIRFLOW REQ'D} = & \frac{\text{\#O}_2 \text{/DAY}}{(\text{CF})(\text{CWTE})(.232)(.075)(1440)} & \text{SCFM} \end{array}$$

$$\text{AIRFLOW REQ'D} = 717 \text{ SCFM}$$

AERATION EQUIPMENT:

$$\text{DESIGN AIRFLOW PER 1-INCH DIFFUSER} = 14 \text{ SCFM}$$

$$\begin{array}{lcl} \text{DIFFUSERS REQ'D} & = & \text{TOTAL AIRFLOW} / \text{AIRFLOW PER DIFFUSER} \\ \text{DIFFUSERS REQ'D} & = & 51 \end{array}$$

$$\text{PROVIDE } 40 \text{ 1-INCH DIFFUSERS AT } 17.9 \text{ SCFM EACH}$$

PROJECT: Liberty County MUD No. 1 WWTP No. 1 **AIRLIFT PUMPS** 4/10/2025
0.26 MGD WWTP PHASE I

DESIGN REQUIREMENTS:

FLOW CONDITIONS: (each train)

AVERAGE DAILY FLOW = 0.26 MGD = 181 GPM
PEAK 2-HOUR FLOW = 1.04 MGD = 722 GPM

INFLUENT LOADINGS:

BOD = 300 8.34 0.26 = 651 LBS PER DAY
TSS = 250 8.34 0.26 = 542 LBS PER DAY
NH3 = 45 8.34 0.26 = 76 LBS PER DAY

RAS AIRLIFT PUMP DESIGN

RETURN ACTIVATED SLUDGE FLOW PER CHAPTER 217

MIN FLOW = 200 GALS PER DAY PER SQ FT OF CLARIFIER AREA
MAX FLOW = 400 GALS PER DAY PER SQ FT OF CLARIFIER AREA

FINAL CLARIFIER AREA = 908 SQUARE FEET

MIN FLOW = 181,584 GALLONS PER DAY
MIN FLOW = 126 GALLONS PER MINUTE

MAX FLOW = 363,168 GALLONS PER DAY
MAX FLOW = 252 GALLONS PER MINUTE

ASSUME 2 AIRLIFT PUMPS
FLOW PER AIRLIFT PUMP = 126 GPM

PROVIDE 2 4 -INCH DIAMETER AIRLIFT PUMPS LOCATED IN THE RAPID MIX CHAMBER

PUMPING CAPACITY: 110 GPM NOMINAL
140 GPM MAXIMUM

NOMINAL AIRFLOW PER 4" RASALP: 10 SCFM
MAX AIRFLOW PER 4" RASALP: 15 SCFM

WAS AIRLIFT PUMP DESIGN

BOD = W.A.S. = 651 LBS PER DAY (DRY SOLIDS)
ASSUME W.A.S. = 0.5 % CONCENTRATION (DRY SOLIDS)
= 5000 MG / L

WAS FLOW = $\frac{(\#/day\ solids)}{(\% concentration)} * (8.34)$

WAS FLOW = 15600 GALS PER DAY

USE 6" AIRLIFT PUMP @ 250 GPM NOMINAL, EACH CLARIFIER

PUMPING CAPACITY: 250 GPM NOMINAL
350 GPM MAXIMUM

15600 GPD @ 250 GPM
1.04 HRS WAS PUMPING PER DAY

PUMP 4 TIMES PER DAY (EVERY 6 HOURS) FOR 15.6 MINUTES

NOMINAL AIRFLOW PER 6" WASALP: 20 SCFM
MAX AIRFLOW PER 6" WASALP: 35 SCFM

OR 250 GPM MECHANICAL PUMPS

PROJECT: Liberty County MUD No. 1 WWTP No. 1 **RAS AND INFLUENT CHANNEL** 4/10/2025
0.72 MGD WWTP ULTIMATE PHASE

PROCESS DESCRIPTION:

INCOMING SCREEN RAW WASTEWATER IS INTRODUCED TO THE PLANT THROUGH THE INFLUENT CHANNEL. RAS AIRLIFT PUMPS ARE LOCATED AT THE HEAD OF THE CHANNEL FOR MIXING WITH THE INCOMING RAW SEWAGE FLOW PRIOR TO DISTRIBUTION TO THE PROCESS AERATION BASINS. AIR IS INTRODUCED INTO THE HEAD OF THE CHANNEL AT A HIGH RATE IN ORDER TO OXYGENATE THE INCOMING RAW AND COMPLETELY MIX IT WITH THE RETURN ACTIVATED SLUDGE.

DESIGN REQUIREMENTS:

FLOW CONDITIONS: THIS BASIN DESIGNED FOR ULTIMATE FLOW

AVERAGE DAILY FLOW = 0.78 MGD = 541.67 GPM
PEAKING FACTOR = 4
PEAK 2-HOUR FLOW = 3.12 MGD = 2166.67 GPM

RAS AIRLIFT FLOW 2 - 6" ALPS 250 GPM NOMINAL
(EACH TRAIN) 350 GPM MAXIMUM

TOTAL RAS FLOW FOR 8 PUMPS 2000 GPM NOMINAL
2800 GPM MAXIMUM

TOTAL ADF/NOMINAL INFLUENT TO RAPID MIX: 2542 GPM
340 CFM

TOTAL PEAK/MAX INFLUENT TO RAPID MIX: 4967 GPM
664 CFM

PROCESS REQUIREMENTS:

THE RAS/INFLUENT CHANNEL MAY BE CONSIDERED AN EXTENSION OF THE PROCESS AERATION BASIN IN TERMS OF VOLUME AND AIR REQUIREMENTS. THE MINIMUM AIR REQUIRED FOR RAPID MIXING IS 50 SCFM/KCF. THE MINIMUM AIR REQUIRED FOR MIXING IN THE BALANCE OF THE CHANNEL IS 20 SCFM/KCF. AIR REQUIREMENTS WILL BE

RAPID MIX:

BASIN WIDTH = 8 FEET
BASIN LENGTH = 17 FEET
SIDE WATER DEPTH = 18 FEET

RAPID MIX BASIN VOLUME = 2448 CU FT

HRT AT DESIGN AVERAGE FLOW = 7.20 MIN
HRT AT PEAK FLOW = 3.69 MIN

PROVIDE 50 SCFM PER 1000 CUBIC FEET OF BASIN VOLUME

AERATION REQUIRED = 122.4 SCFM

DIFFUSER SIZE = 2 INCH M.S. DIFFUSER
NOMINAL AIRFLOW PER 2-INCH DIFFUSER = 10 SCFM

REQ'D NUMBER OF DIFFUSERS = 12.2 DIFFUSERS

PROVIDE 15 2-INCH DIFFUSERS RATED AT 8.2 SCFM EACH
WITH SHEAR TUBES FOR ENHANCED MIXING

Air Lifts				
Pipe Size (in)	Q (gpm)	Air (cfm)	Max Q (gpm)	Max Air (cfm)
3	60	5	80	10
4	110	10	140	15
6	250	20	350	35
8	500	40	650	60
10	750	60	950	80
12	1000	70	1200	100
14	1200	100	1400	130
16	1600	150	2000	200

FEED CHANNEL:

BASIN WIDTH = 8 FEET
BASIN LENGTH = 17 FEET
SIDE WATER DEPTH = 18 FEET

FEED CHANNEL BASIN VOLUME = 2448 CU FT

HRT AT DESIGN AVERAGE FLOW = 7.20 MIN
HRT AT PEAK FLOW = 3.69 MIN

PROVIDE 20 SCFM PER 1000 CUBIC FEET OF BASIN VOLUME

AERATION REQUIRED = 48.96 SCFM

DIFFUSER SIZE = 1 INCH M.S. DIFFUSER
NOMINAL AIRFLOW PER 2-INCH DIFFUSER = 10 SCFM

REQ'D NUMBER OF DIFFUSERS = 4.9 DIFFUSERS

PROVIDE 5 2-INCH DIFFUSERS RATED AT 9.8 SCFM EACH
WITH SHEAR TUBES FOR ENHANCED MIXING

ULTIMATE FEED CHANNEL:

BASIN WIDTH = 8 FEET
BASIN LENGTH = 102 FEET
SIDE WATER DEPTH = 18 FEET

FEED CHANNEL BASIN VOLUME = 14688 CU FT

HRT AT DESIGN AVERAGE FLOW = 43.23 MIN
HRT AT PEAK FLOW = 22.12 MIN

PROVIDE 25 SCFM PER 1000 CUBIC FEET OF BASIN VOLUME

AERATION REQUIRED = 367.2 SCFM

DIFFUSER SIZE = 1 INCH M.S. DIFFUSER
NOMINAL AIRFLOW PER 2-INCH DIFFUSER = 10 SCFM

REQ'D NUMBER OF DIFFUSERS = 36.7 DIFFUSERS

PROVIDE 24 2-INCH DIFFUSERS RATED AT 15.3 SCFM EACH
WITH SHEAR TUBES FOR ENHANCED MIXING

PROJECT: Liberty County MUD No. 1 WWTP **CHLORINE CONTACT BASIN** 04/10/25
 0.26 MGD WWTP PHASE I
 0.72 MGD ULTIMATE PHASE FLOW

PROJECT REQUIREMENTS: Calculations are for each 0.26 MGD Train

FLOW CONDITIONS:

AVERAGE DAILY FLOW = 0.26 MGD = 180.56 GPM
 PEAKING FACTOR = 4
 PEAK 2-HOUR FLOW = 1.04 MGD = 722.22 GPM

DESIGN REQUIREMENTS:

MINIMUM VOLUME REQ'D FOR 20 MINUTE DETENTION AT PEAK 2-HOUR FLOW

MINIMUM VOL REQ'D = (PEAK 2-HR FLOW IN GPM) (20 MIN TIME) / (7.48 GAL / CU FT)
 MINIMUM VOL REQ'D = 1,931 CF

ASSUME SIDE WATER DEPTH = 17 FEET
 AREA REQ'D = 113.59 SQ FT

AREA OF CORNER FROM CLARIFIER CALCS: 49.62 CF
 AREA OF RECTANGLE AFTER CORNERS SUBTRACTED = 14.35 SQ FT
 LENGTH OF RECTANGLE = CLARIFIER DIAMETER = 34.00 FT
 WIDTH OF RECTANGLE = 0.42 FEET SAY 5 FEET

ACTUAL AREA OF RECTANGLE = 170.00 SF
 AREA OF ONE CORNER = 49.62 SF
 TOTAL AREA PROVIDED = 269.24 SF

ACTUAL VOLUME PROVIDED = 4577 CU FT

CHLORINE BASIN DIMENSIONS: 5.00 FT WIDE, 34.00 FT LONG 17 FT SWD

ACTUAL DETENTION TIME = (VOL IN CF) * (7.48) / (PEAK FLOW IN GPM)
 ACTUAL DETENTION TIME = 47 MINUTES

AERATION REQUIRED = 25 SCFM PER 1000 CU FT OF TANKAGE

AIR REQ'D = (25 SCFM) (VOLUME REQ'D) / 1000
 AIR REQ'D = 114 SCFM

DETERMINE NUMBER OF AIR DIFFUSERS REQUIRED

SIZE OF DIFFUSERS = 1 INCH
 AIRFLOW PER DIFF = 10 SCFM PER DIFFUSER
 NUMBER OF DIFF = (REQ'D SCFM) / (SCFM PER DIFFUSER) = 11.44
 NUMBER OF DIFF = 12 1" SINGLE DROP DIFFUSERS REQ'D

ON 4" HEADER

PROJECT:

Liberty County MUD No. 1 WWTP No. 1
0.26 MGD WWTP PHASE I

AEROBIC DIGESTER BASINS 4/10/2025

**DESIGN REQUIREMENTS: TWO (2) AEROBIC DIGESTER COMPLEXES WILL BE DESIGNED FOR
0.18 MGD EACH**

FLOW CONDITIONS: (EACH TRAIN)

AVERAGE DAILY FLOW	=	0.260	MGD	=	181 GPM
PEAKING FACTOR	=	4			
PEAK 2-HOUR FLOW	=	1.04	MGD	=	722 GPM

INFLUENT LOADINGS:

BOD	=	300	8.34	0.26	=	651 LBS/DAY
TSS	=	250	8.34	0.26	=	542 LBS/DAY
NH3	=	45	8.34	0.26	=	76 LBS/DAY

EFFLUENT LOADINGS:

BOD	=	10	MG/L
TSS	=	15	MG/L
NH3	=	3	MG/L

DESIGN CRITERIA:

PROCESS DESCRIPTION:

SETTLED SLUDGE IS AIRLIFTED FROM THE CLARIFIER HOPPER TO ONE OF TWO (2)
AEROBIC DIGESTER BASINS.

AEROBIC DIGESTER DESIGN

TCEQ MINIMUM VOLUME REQ'D	=	20	CF/# BOD
TCEQ MINIMUM DETENTION TIME	=	40	DAYS SRT
DIGESTER SOLIDS	=	20,000	MG/L
VOLATILE SOLIDS REDUCTION	=	44%	METCALF AND EDDY (4TH EDITION)
MLVSS/MLSS RATIO	=	0.75	
TOTAL DAILY SOLIDS GENERATION	=	584	#/DAY
TOTAL SOLIDS AFTER DIGESTION	=	391	#/DAY
TCEQ REQUIRED VOLUME (LOADING)	=	11682	CF
TCEQ REQUIRED VOLUME (DETENTION)	=	12547	CF
ASSUME WATER DEPTH	=	18	FEET
DESIGN BASIN WIDTH	=	16.25	FEET
NUMBER OF BASINS	=	2	
REQUIRED BASIN LENGTH	=	19.97	FEET
USE LENGTH	=	22	FEET
DIGESTER VOLUME AVAILABLE	=	12870	CF
DIGESTER LOADING	=	22	CF/# BOD
DIGESTER SLUDGE RETENTION TIME	=	41.03	DAYS

DIGESTER TANK DESIGN:

AIR REQUIRED FOR DIGESTERS: **257 SCFM** **FOR TWO (2) DIGESTERS**

AIR PER DIGESTER: **129 SCFM**

SIZE OF DIFFUSERS = 1 INCH

AIRFLOW PER DIFF = 10 SCFM PER DIFFUSER

NUMBER OF DIFF = (REQ'D SCFM) / (SCFM PER DIFFUSER) = 12.87

NUMBER OF DIFF = 10 1" SINGLE DROP DIFFUSERS REQ'D (EACH BASIN)

USE TWENTY (20) 1" DIFFUSER DROP ASSEMBLIES: 6.4 SCFM EACH

USE 6" AND 4" AIR HEADERS

AIRLIFT PUMPS:

THICKENED SLUDGE AIRLIFTS (TSALP-1, TSALP-2)

PROVIDE 2 6-INCH DIAMETER AIRLIFT PUMPS, RATED AT
250 GPM WITH A NOMINAL AIR REQUIREMENT OF 20 SCFM

AIR SUMMARY:

	PER TRAIN	TOTAL
AEROBIC DIGESTERS	257	772 SCFM
AIRLIFT PUMPS	40	120 SCFM
TOTAL		892 SCFM

PROJECT: Liberty County MUD No. 1 WWTP No. 1 **POSITIVE DISPLACEMENT BLOWERS** 4/10/2025
0.26 MGD WWTP PHASE I

SIZE BLOWERS TO PROVIDE AIRFLOW FOR ULTIMATE FLOW WITH FOUR (4) UNITS INCLUDING ONE STANDBY
TWO BLOWERS SHALL BE FURNISHED FOR PHASE I AND ONE BLOWER IN EACH ADDITIONAL PHASE

PROCESS REQUIREMENTS:

THE PROCESS AERATION BLOWERS TO PROVIDE FOR THE FOLLOWING FOR PHASE I FLOW:

PLANT COMPONENT	EACH BASIN	DESIGN AIRFLOW	MAX AIRFLOW
Rapid Mix Basin	1	122	184
RAS AIRLIFT PUMPS	2	10	20 SCFM
WAS AIRLIFT PUMPS	1	20	30 SCFM
SCUM AIRLIFT PUMPS	1	10	15 SCFM
FEED CHANNEL	1	49	73 SCFM
PROCESS AERATION	1	717	1075 SCFM
CHLORINE CONTACT BASIN	1	114	172 SCFM
DIGESTER BASINS	2	129	257 SCFM
DIGESTER DECANT AIRLIFTS	2	5	10 SCFM
TOTALS		1320 SCFM	1980 SCFM

FURNISH TWO (2) P.D.S DESIGNED TO OPERATE ON VFDs
1320 SCFM DESIGN, 1980 SCFM MAX @ 8.51 PSIG

INSTALL TWO BLOWERS IN PHASE I 1500 SCFM EACH
ADD THIRD UNIT IN PHASE II
ADD FOURTH AND FIFTH UNIT IN ULTIMATE PHASE

Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	10 in
Length of Air Bridge	165 ft
Air Diffuser Submergence	17 ft
Static Head on Air Diffusers	7.36 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.07 psi
Air Bridge Friction Losses	0.07 psi
Air Drop Losses (1" air drops)	0.11 psi
5% Factor of Safety	0.41 psi
Total Differential Pressure Loss	8.51 psi
Approximate Blower Power Required	89.8 HP

No. of Trains 3

THE PROCESS AERATION BLOWERS TO PROVIDE FOR THE FOLLOWING FOR ULTIMATE FLOW:

PLANT COMPONENT	EACH BASIN	DESIGN AIRFLOW	MAX AIRFLOW
Rapid Mix Basin	1	122	184
RAS AIRLIFT PUMPS	6	10	60 SCFM
WAS AIRLIFT PUMPS	3	20	90 SCFM
SCUM AIRLIFT PUMPS	3	10	45 SCFM
FEED CHANNEL	3	367	1102 SCFM
PROCESS AERATION	3	717	2151 SCFM
CHLORINE CONTACT BASIN	3	114	343 SCFM
DIGESTER BASINS	6	129	772 SCFM
DIGESTER DECANT AIRLIFTS	6	5	30 SCFM
TOTALS		4670 SCFM	7006 SCFM

FURNISH FOUR (4) P.D.S DESIGNED TO OPERATE ON VFDs, WITH ONE (1) SERVING AS BACK UP
1557 SCFM DESIGN, 2335 SCFM MAX @ 8.44 PSIG

Chlorine Gas Disinfection (Ultimate Phase)

Chlorine Dosage

Qpeak 1.04 MGD

Chlorine [] 8 mg/l

PPD Cl 69.4 lbs/day

Max Gas Withdrawl Rate

TA - Lowest Ambient Temp 40 F

Tth - Threshold Temp 0 F

F - Withdrawl Factor 1 lb/F/day

Wg - Max Gas Withdrawl Rate 40 lbs/day

Minimum Cylinders Required

PPD Cl 69.4 lbs/day

Wg 40 lbs/day

Cyl - min # of cylinders 2.0 150lb**Chlorine Bleach Disinfection**

NaOCl Concentration (%) 12.5%

PPD 69.4 lbs/day of Cl₂C 1.0425 lbs of available Cl₂ (lb Cl₂/gal NaOCl)**R 2.77 chemical feed rate (gal/hr)****15 Day Storage Volume 998.4 gallons**

Attachment 8A – Design Features

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Attachment 8A – Design Features

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Phase 1 – 0.26 MGD

A. STANDBY POWER SYSTEM

The permanent emergency/standby generator set will be installed in Interim Phase I with the temporary steel package treatment facility. The temporary facility will be equipped with a generator capable of powering the following equipment:

1. 2 - Blowers
2. 1 - Final Clarifier
3. Non-Potable Water System
4. Chlorination System
5. Effluent Metering Station
6. Lighting Panels and Control Equipment

Additionally, the collection system will be sized such that there is enough storage within the lines for minor outages. An automatic transfer switch will be included to transfer electrical loads to the generator during an outage. In accordance with *30 TAC §217.37*, the disinfection system will automatically restart during a power outage and upon transfer back to the main power source.

B. ALARM FEATURES

The plant will be equipped with an autodialer alarm monitor as well as audible alarm and light to alert facility personnel of the following conditions:

1. Power Outage
2. Influent Lift Station Wet Well High Level
3. Blower Failure
4. Final Clarifier Torque Overload
5. Bleach Leak Detection

The autodialer will store prerecorded messages concerning each alarm condition and procedure to be followed and will call up to 8 different phone numbers until alarm condition is acknowledged.

C. DESIGN FEATURES FOR OPERATING FLEXIBILITY

1. AERATION BASINS

Phase 1 will have one aeration basin. An additional aeration basin will be constructed in Phase 2 such that one can be taken out of service for repair and maintenance and still provide adequate treatment. Piping and valves will be included to allow each unit to be individually isolated for draining, cleaning or repairs.

2. FINAL CLARIFIERS

Phase 1 will have one final clarifier as this treatment facility is designed for less than 0.4 million gallons per day, per *30 TAC 217.153 (c)(1)*.

3. CHLORINE CONTACT

A liquid bleach disinfection system will be installed per *30 TAC 217.271(b)*.

D. EQUIPMENT DUPLICITY

1. BLOWERS

Two blowers will be installed with the Phase 1. One will be used to meet firm design aeration rate, the second as backup. Backup operation for these units is automatic.

2. NON-POTABLE WATER SYSTEM

The non-potable water system will be equipped with dual pumps, one for firm capacity and one as a backup, capable of meeting the chlorination system and washdown demand.

E. OVERFLOW PREVENTION

The following design features will be used to prevent the overflow of wastewater from treatment units:

1. All units are designed with a minimum of 18 inches free board which will allow time for eliminating any line blockage problem or diversion of flow to another tank.
2. The facility design includes a peaking factor of 4.0 to insure adequate hydraulic capacity.
3. The facility hydraulic design, including piping, channels, weirs, troughs and other features, will be sized to allow the 2-hour peak flow to pass through the facility without exceeding minimum freeboard requirements with any single treatment unit out of service.

Attachment 8A – Design Features

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Phase 2 – 0.52 MGD

A. STANDBY POWER SYSTEM

The permanent emergency/standby generator set will be installed in Phase I with the concrete treatment facility. The permanent facility will be equipped with a generator capable of powering the following equipment:

1. 3 - Blowers
2. 2 - Final Clarifier
3. Non-Potable Water System
4. Chlorination System
5. Effluent Metering Station
6. Lighting Panels and Control Equipment

Additionally, the collection system will be sized such that there is enough storage within the lines for minor outages. An automatic transfer switch will be included to transfer electrical loads to the generator during an outage. In accordance with *30 TAC §217.37*, the disinfection system will automatically restart during a power outage and upon transfer back to the main power source.

B. ALARM FEATURES

The plant will be equipped with an autodialer alarm monitor as well as audible alarm and light to alert facility personnel of the following conditions:

1. Power Outage
2. Influent Lift Station Wet Well High Level
3. Blower Failure
4. Final Clarifier Torque Overload
5. Bleach Leak Detection

The autodialer will store prerecorded messages concerning each alarm condition and procedure to be followed and will call up to 8 different phone numbers until alarm condition is acknowledged.

C. DESIGN FEATURES FOR OPERATING FLEXIBILITY

1. AERATION BASINS

Phase 2 will have two aeration basins. One additional aeration basin will be constructed in Phase 3 such that one can be taken out of service for repair and maintenance and still provide adequate treatment. Piping and valves will be included to allow each unit to be individually isolated for draining, cleaning or repairs.

2. FINAL CLARIFIERS

Phase 2 will have two final clarifiers as this treatment facility is designed for greater than 0.4 million gallons per day, per *30 TAC 217.153 (c)(1)*.

3. CHLORINE CONTACT

A liquid bleach disinfection system will be installed per *30 TAC 217.271(b)*.

D. EQUIPMENT DUPLICITY

1. BLOWERS

One additional blower will be installed with the Phase 2 for a total of three blowers. Two will be used to meet firm design aeration rate, the third as backup. Backup operation for these units is automatic.

2. NON-POTABLE WATER SYSTEM

The non-potable water system will be equipped with dual pumps, one for firm capacity and one as a backup, capable of meeting the chlorination system and washdown demand.

E. OVERFLOW PREVENTION

The following design features will be used to prevent the overflow of wastewater from treatment units:

1. All units are designed with a minimum of 18 inches free board which will allow time for eliminating any line blockage problem or diversion of flow to another tank.
2. The facility design includes a peaking factor of 4.0 to insure adequate hydraulic capacity.
3. The facility hydraulic design, including piping, channels, weirs, troughs and other features, will be sized to allow the 2-hour peak flow to pass through the facility without exceeding minimum freeboard requirements with any single treatment unit out of service.

Attachment 8A – Design Features

(Corresponds to Technical Report 1.1, Section 4, Page 22 of 66)

Ultimate Phase – 0.78 MGD

A. STANDBY POWER SYSTEM

The permanent emergency/standby generator set will be installed in Interim Phase I with the concrete treatment facility. The permanent facility will be equipped with a generator capable of powering the following equipment:

1. 5 - Blowers
2. 3 - Final Clarifier
3. Non-Potable Water System
4. Chlorination System
5. Effluent Metering Station
6. Lighting Panels and Control Equipment

Additionally, the collection system will be sized such that there is enough storage within the lines for minor outages. An automatic transfer switch will be included to transfer electrical loads to the generator during an outage. In accordance with *30 TAC §217.37*, the disinfection system will automatically restart during a power outage and upon transfer back to the main power source.

B. ALARM FEATURES

The plant will be equipped with an autodialer alarm monitor as well as audible alarm and light to alert facility personnel of the following conditions:

1. Power Outage
2. Influent Lift Station Wet Well High Level
3. Blower Failure
4. Final Clarifier Torque Overload
5. Bleach Leak Detection

The autodialer will store prerecorded messages concerning each alarm condition and procedure to be followed and will call up to 8 different phone numbers until alarm condition is acknowledged.

C. DESIGN FEATURES FOR OPERATING FLEXIBILITY

1. AERATION BASINS

Ultimate Phase will have three aeration basins such that one can be taken out of service for repair and maintenance and still provide adequate treatment. Piping and valves will be included to allow each unit to be individually isolated for draining, cleaning or repairs.

2. FINAL CLARIFIERS

Ultimate Phase will have three final clarifiers as this treatment facility is designed for greater than 0.4 million gallons per day, per *30 TAC 217.153 (c)(1)*.

3. CHLORINE CONTACT

A liquid bleach disinfection system will be installed per *30 TAC 217.271(b)*.

D. EQUIPMENT DUPLICITY

1. BLOWERS

Two additional blowers will be installed with the Ultimate Phase for a total of five blowers. Four will be used to meet firm design aeration rate, the fifth as backup. Backup operation for these units is automatic.

2. NON-POTABLE WATER SYSTEM

The non-potable water system will be equipped with dual pumps, one for firm capacity and one as a backup, capable of meeting the chlorination system and washdown demand.

E. OVERFLOW PREVENTION

The following design features will be used to prevent the overflow of wastewater from treatment units:

1. All units are designed with a minimum of 18 inches free board which will allow time for eliminating any line blockage problem or diversion of flow to another tank.
2. The facility design includes a peaking factor of 4.0 to insure adequate hydraulic capacity.
3. The facility hydraulic design, including piping, channels, weirs, troughs and other features, will be sized to allow the 2-hour peak flow to pass through the facility without exceeding minimum freeboard requirements with any single treatment unit out of service.

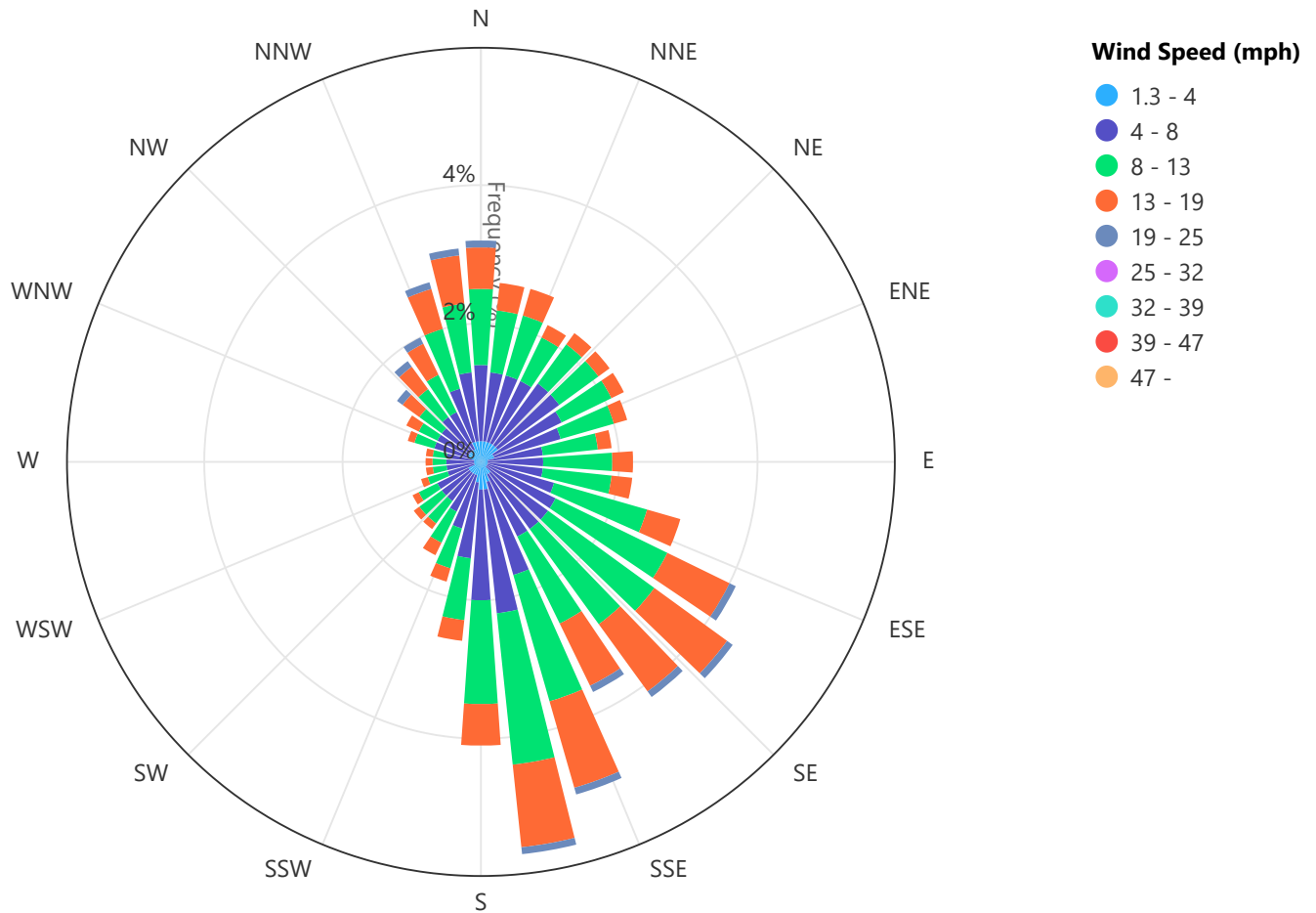
Attachment 9 – Wind Rose

(Corresponds to Technical Report 1.1, Section 5.B, Page 23 of 66)

HOUSTON INTERCONTINENTAL AP (TX) Wind Rose



June 01, 1969 - March 19, 2025
Sub-Interval: January 1 - December 31, 0 - 24



Click and drag to zoom

Candice Calhoun

From: Susy Vallejo, E.I.T. <svallejo@ehra.team>
Sent: Wednesday, May 14, 2025 12:08 PM
To: Candice Calhoun; Krystal Regner, P.E., ENV SP
Subject: RE: Application for Proposed Permit No. WQ0016802001 - Notice of Deficiency
Attachments: LC 6 TPDES WWTP No 1_NOD Response Letter.pdf; Municipal Discharge New Spanish NORI.docx; Attachment 2 - Plain Language Summary.pdf; Attachment 4 - Affected Landowners List.pdf; Exhibit 1 - USGS Plum Grove Quad Map.pdf; Exhibit 1A - USGS Huffman Quad Map.pdf; Exhibit 2 - Affected Landowners Map.pdf; LC No 6 WWTP 1 - TCEQ Admin.pdf; Payment Submittal Form.pdf

Importance: High

Good afternoon, Candice,

Please see attached cover letter addressing your comments. I have also attached all the revised documents. A hard copy has been sent via FedEx overnight, which should be delivered tomorrow. If you have any further comments or questions, please let me know.

Thank you,

Susy Vallejo, E.I.T.

Engineer III

10011 Meadowglen Lane

Houston, Texas 77042

Direct: 281.751.9961



TBPE No. F-726 | TBPLS No. 10092300

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, May 5, 2025 9:29 AM
To: Krystal Regner, P.E., ENV SP <kregner@ehra.team>
Cc: Susy Vallejo, E.I.T. <svallejo@ehra.team>
Subject: Application for Proposed Permit No. WQ0016802001 - Notice of Deficiency
Importance: High

Good morning, Ms. Regner,

The attached Notice of Deficiency (NOD) letter dated May 5, 2025, requests additional information needed to declare the application administratively complete. Please send complete response no later than May 19, 2025.

Please let me know if you have any questions.

Regards,



Candice Courville

License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental
Quality
512-239-4312

candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at
www.tceq.texas.gov/customersurvey



TBPE No. F-726
TBPLS No. 10092300

May 14, 2025

Candice Calhoun
Applications Review and Processing Team (MC-148)
Water Quality Division
Texas Commission on Environmental Quality

Re: Response to NOD for New Permit No. WQ0016802001 (EPA ID TX0147800)
To be Issued to LH Ranch, Ltd
CN606381119, RN112204938
EHRA Project No. 071-069-21

Dear Ms. Calhoun:

We received your Notice of Deficiency Letter dated May 5, 2025, wherein you requested a response to comments regarding the above-mentioned permit application. Please see below the comments and our responses.

Comment No. 1: Our records indicate that an original paper copy of the application was not received. The original paper copy and electronic copy of the application are both required. Please submit the original paper copy of the application to: *Texas Commission on Environmental Quality, Water Quality Division, Application Review and Processing Team (MC 148), P.O. Box 13087, Austin, Texas 78711-3087.*

Response No. 1: Original and 3 copies of the permit were sent out Monday, May 5, 2025, through FedEx overnight delivery. Please let me know if the copies have yet to be delivered.

Comment No. 2: Application Fee on page 1 of the administrative report: We were unable to confirm payment of the application processing fee. The filing fee for your application is \$1650.00. Please submit payment to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, provide a copy of the check along with the response to this letter.

Response No. 2: Payment application and check no. 059507 were sent Monday, May 5, 2025. A copy of the payment submittal form along with copy of the check have been included with this response letter as separate attachment.

Comment No. 3: Section 4, item B: The mailing address for the contact was not provided. Please provide an updated section of the administrative report to show the mailing address for the provided contact.

Response No. 3: Administrative Report Section 4, Item B mailing address has been updated. A copy of the Administrative Application has been included with this response letter as a separate attachment.

Comment No. 4: Section 8, item D: The public viewing location provided is not in the same county as the site location. The county of the provided public viewing location is Montgomery County. Please provide an updated section of the administrative report to provide a public viewing location in Liberty County.

Response No. 4: Public viewing information has been updated to have the library be in the same county as the proposed facility. A copy of the Administrative Application has been included with this response letter as a separate attachment.

Comment No. 5: USGS Topographic Map: The USGS map provided did not label the applicant's property boundary. Please provide a revised USGS map that labels the applicant's property boundary.

Response No. 5: Updated USGS maps have been included with this response letter as separate attachments.

Comment No. 6: Plain Language Summary (PLS): The plain language summaries, in English and Spanish language, provided shows the flow amount as .76 MGD, however the technical report provided shows .78 MGD. Please clarify the correct flow amount and update the PLS/technical report as applicable.

Response No. 6: Attachment 2: Plain Language Summaries have been updated and have been included with this response letter as separate attachments.

Comment No. 7: Affected Landowner Map: The landowner map skips number 93 and goes from 92 to 94. Please provide a corrected landowner map.

Response No. 7: Affected Landowners Map has been revised as requested. Exhibit 2- Affected Landowners Map has been included with this response letter as separate attachment.

Comment No. 8: Affected Landowner List: The landowner list provided is not numbered to match the landowner map. Please provide a revised landowner map.

Response No. 8: Affected Landowners List has been revised as requested. Attachment 2- Affected Landowners List has been included with this response letter as separate attachment.

Comment No. 9: The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. LH Ranch, Ltd., 500 West 5th Street, Suite 700, Austin, Texas 78701, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016802001 (EPA I.D. No. TX0147800) to authorize the discharge of

treated wastewater at a volume not to exceed a daily average flow of **780,000** gallons per day. The domestic wastewater treatment facility will be located approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road, near the city of Huffman, in Liberty County, Texas 77336. The discharge route will be from the plant site to (**pending TCEQ RWA review**). TCEQ received this application on April 30, 2025. The permit application will be available for viewing and copying at **Jones Public Library, 801 S Cleveland Street, Dayton**, in Liberty County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/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=-95.0716,30.1253&level=18>

Further information may also be obtained from LH Ranch, Ltd. at the address stated above or by calling Ms. Krystal Regner, P.E., EHRA Engineering, at 713-784-4500.

Response No. 9: See changes in bold red text.

Comment No. 10: The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Response No. 10: Translated Spanish NORI has been included with this response letter as separate attachment.

Please consider the enclosed documentation and plan revisions, in response to your comments, for declaration of administrative completeness. If you have any questions or need additional information, please contact myself or Krystal Regner, P.E., at 713-784-4500 or by email at svallejo@ehra.team or kregner@ehra.team, respectively.

Sincerely,



Susy Vallejo, E.I.T
Engineer III
Water and Wastewater Facilities

Candice Calhoun
Texas Commission on Environmental Quality
May 14, 2025
Page 4

Enclosures: Spanish NORI, Attachment 2 – Plain Language Summary, Attachment 4 – Affected Landowners List, Exhibit 1 – USGS Plum Grove Quad Map, Exhibit 1A – USGS Huffman Quad Map, Exhibit 2 – Affected Landowners Map, Administrative Report, Payment Submittal Form

cc: Krystal Regner, P.E. – Firm
Jared Bowlin, P.E. – Firm



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: LH Ranch, LTD

PERMIT NUMBER (If new, leave blank): WQ00New Permit

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

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Affected Landowners Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Summary of Application (PLS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Public Involvement Plan Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 4.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 6.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input checked="" type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 059507
Check/Money Order Amount: \$1,650.00
Name Printed on Check: EHRA Engineering
EPAY Voucher Number: Click to enter text.
Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

- ☐ Publicly Owned Domestic Wastewater
☒ Privately-Owned Domestic Wastewater
☐ Conventional Water Treatment

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

- ☐ Active ☒ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: [Click to enter text.](#)

f. For existing permits:

Permit Number: WQ00 [Click to enter text.](#)

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

Expiration Date: [Click to enter text.](#)

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

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

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

LH Ranch, LTD.

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

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

CN: [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: Pastor, Andrew

Title: EVP

Credential: [Click to enter text.](#)

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

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

[Click to enter text.](#)

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

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

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: Regner, Krystal
Title: Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: kregner@ehra.team
Check one or both: ☐ Administrative Contact ☒ Technical Contact

B. Prefix: Miss Last Name, First Name: Vallejo, Susy
Title: Engineer III Credential: E.I.T
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: svallejo@ehra.team
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: Ms. Last Name, First Name: Regner, Krystal
Title: Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: kregner@ehra.team

B. Prefix: Miss Last Name, First Name: Vallejo, Susy
Title: Engineer III Credential: E.I.T.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: svallejo@ehra.team

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: Click to enter text. Last Name, First Name: Frey, Megan
Title: Principal Credential: Click to enter text.
Organization Name: LH Ranch, LP.
Mailing Address: 500 W 5th Street, Suite 700 City, State, Zip Code: Austin, TX 78701
Phone No.: 512.682.5585 E-mail Address: mfrey@endeavor-re.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: Click to enter text. Last Name, First Name: Frey, Megan
Title: Principal Credential: Click to enter text.
Organization Name: LH Ranch, LP.
Mailing Address: 500 W 5th Street, Suite 700 City, State, Zip Code: Austin, TX 78701
Phone No.: 512.682.5585 E-mail Address: mfrey@endeavor-re.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Regner, Krystal
Title: Project Manager Credential: P.E.
Organization Name: EHRA Engineering
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, TX 77042
Phone No.: 713.784.4500 E-mail Address: kregner@ehra.team

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms.

Last Name, First Name: Regner, Krystal

Title: Project Manager

Credential: P.E.

Organization Name: EHRA Engineering

Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Click to enter text.

Phone No.: 713.784.4500

E-mail Address: kregner@ehra.team

D. Public Viewing Information

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

Public building name: Jones Public Library

Location within the building: Click to enter text.

Physical Address of Building: 801 S Cleveland Street

City: Dayton

County: Liberty

Contact (Last Name, First Name): Sherry Sikes

Phone No.: 936.258.7060 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

☒ Yes

☐ No

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

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

☒ Yes

☐ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

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

Attachment: Attachment 2

G. Public Involvement Plan Form

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

Attachment: Attachment 3

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

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

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

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

Liberty County MUD No. 6 Wastewater Treatment Plant No. 1

C. Owner of treatment facility: LH Ranch, LP.

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

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

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

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

Organization Name: LH Ranch, LP.

Mailing Address: 500 W 5th Street, Suite 700 City, State, Zip Code: Austin, TX 8701

Phone No.: 512.682.5585 E-mail Address: mfrey@endeavor-re.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: [Click to enter text.](#)

Last Name, First Name: NOT APPLICABLE

Title: [Click to enter text.](#)

Credential: [Click to enter text.](#)

Organization Name: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, Zip Code: [Click to enter text.](#)

Phone No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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

Prefix: [Click to enter text.](#)

Last Name, First Name: NOT APPLICABLE

Title: [Click to enter text.](#)

Credential: [Click to enter text.](#)

Organization Name: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, Zip Code: [Click to enter text.](#)

Phone No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

The proposed wastewater treatment plant is located approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road in Huffman, Texas in Liberty County.

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

☐ Yes ☐ No

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

The effluent will be discharged from the WWTP to Camp Branch West Fork; then to Luce Bayou Segment 1002B; then to Lake Houston.

City nearest the outfall(s): New Caney

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

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

☐ Yes ☒ No

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

- ☐ Authorization granted ☐ Authorization pending

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

Attachment: [Click to enter text.](#)

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

NOT APPLICABLE

- 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:

NOT APPLICABLE

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

NOT APPLICABLE

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: [Click to enter text.](#)

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: New Permit

Applicant: LH Ranch, Ltd.

Certification:

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

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

Signatory name (typed or printed): Megan Frey

Signatory title: Principal

Signature: _____ Date: _____

(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this _____ day of _____, 20____.

My commission expires on the _____ day of _____, 20____.

Notary Public

[SEAL]

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☐ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. ☒ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- D. Provide the source of the landowners' names and mailing addresses: Liberty County Appraisal District
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

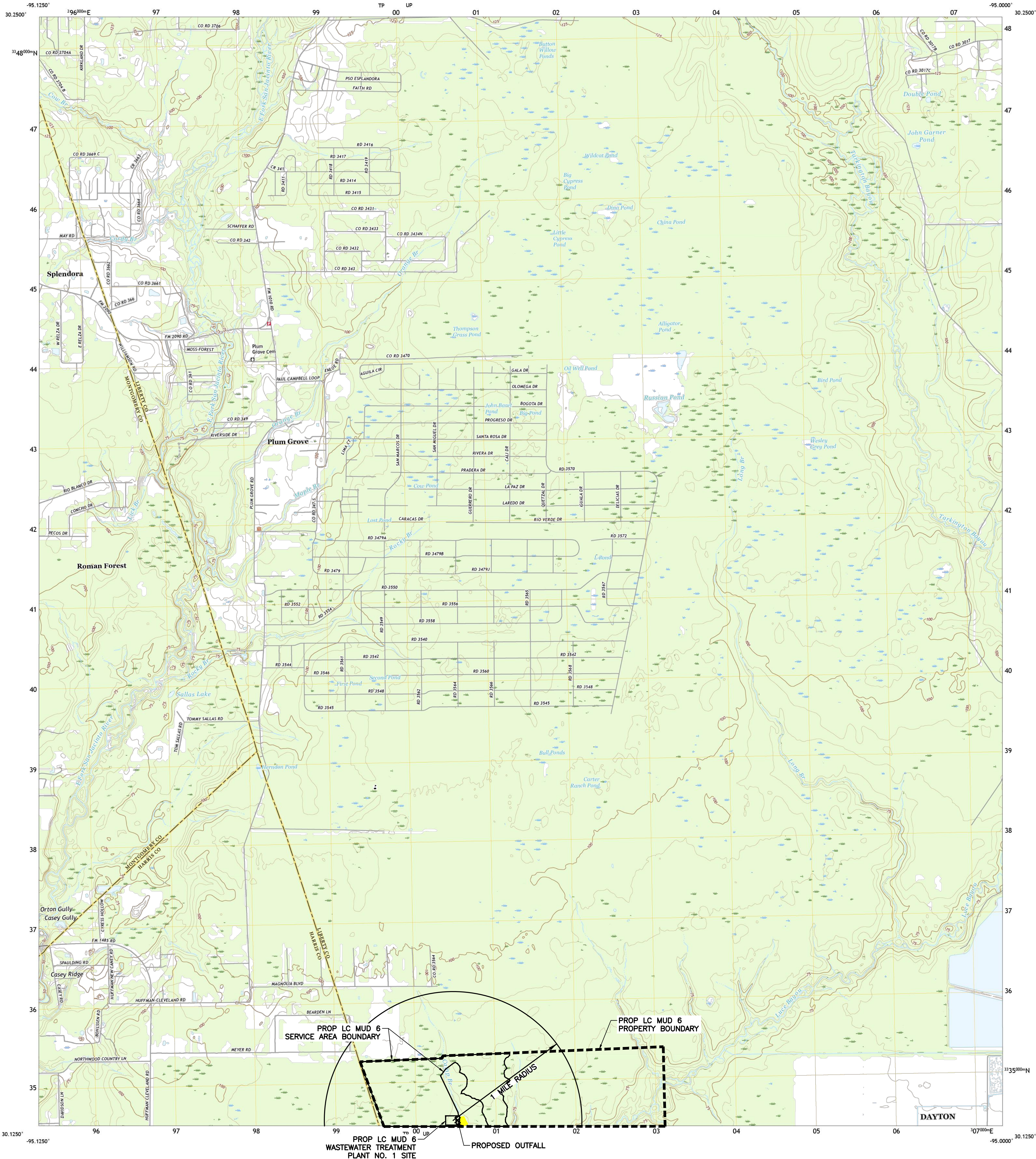
- ☒ Yes ☐ No



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



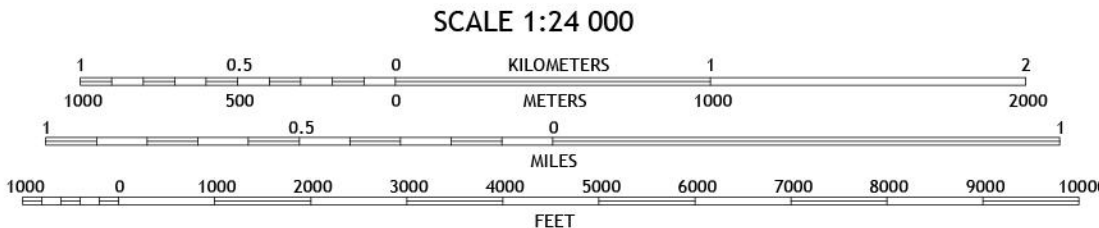
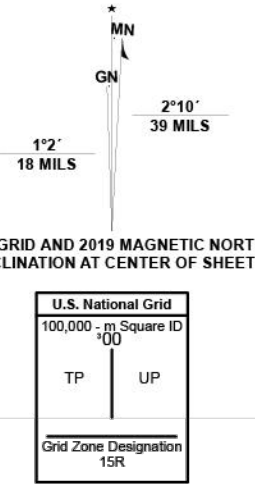
PLUM GROVE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1000-meter grid/Universal Transverse Mercator, Zone 16R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2003 - 2022
Contours.....National Elevation Dataset, 2010
Boundaries.....Multiple sources; see metadata file 2019 - 2021

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



1	2	3
4	5	6
7	8	9

1 Fosteria
2 Cleveland
3 Tarkington Prairie
4 Splendora
5 Simmons Bottom
6 Moonshine Hill
7 Huffman
8 Dayton

ROAD CLASSIFICATION

Expressway.....
Secondary Hwy.....
Ramp.....
Interstate Route.....
US Route.....
State Route.....

Local Connector.....
Local Road.....
4WD.....

PLUM GROVE, TX
2022



10011 Meadowglen Lane
Houston, Texas 77042
EHRAInc.com | 713.784.4500
TBPE No. F-726 | TBPLS No. 10092300

LIBERTY COUNTY MUD NO 6
WWTP NO. 1
NEW TPDES PERMIT

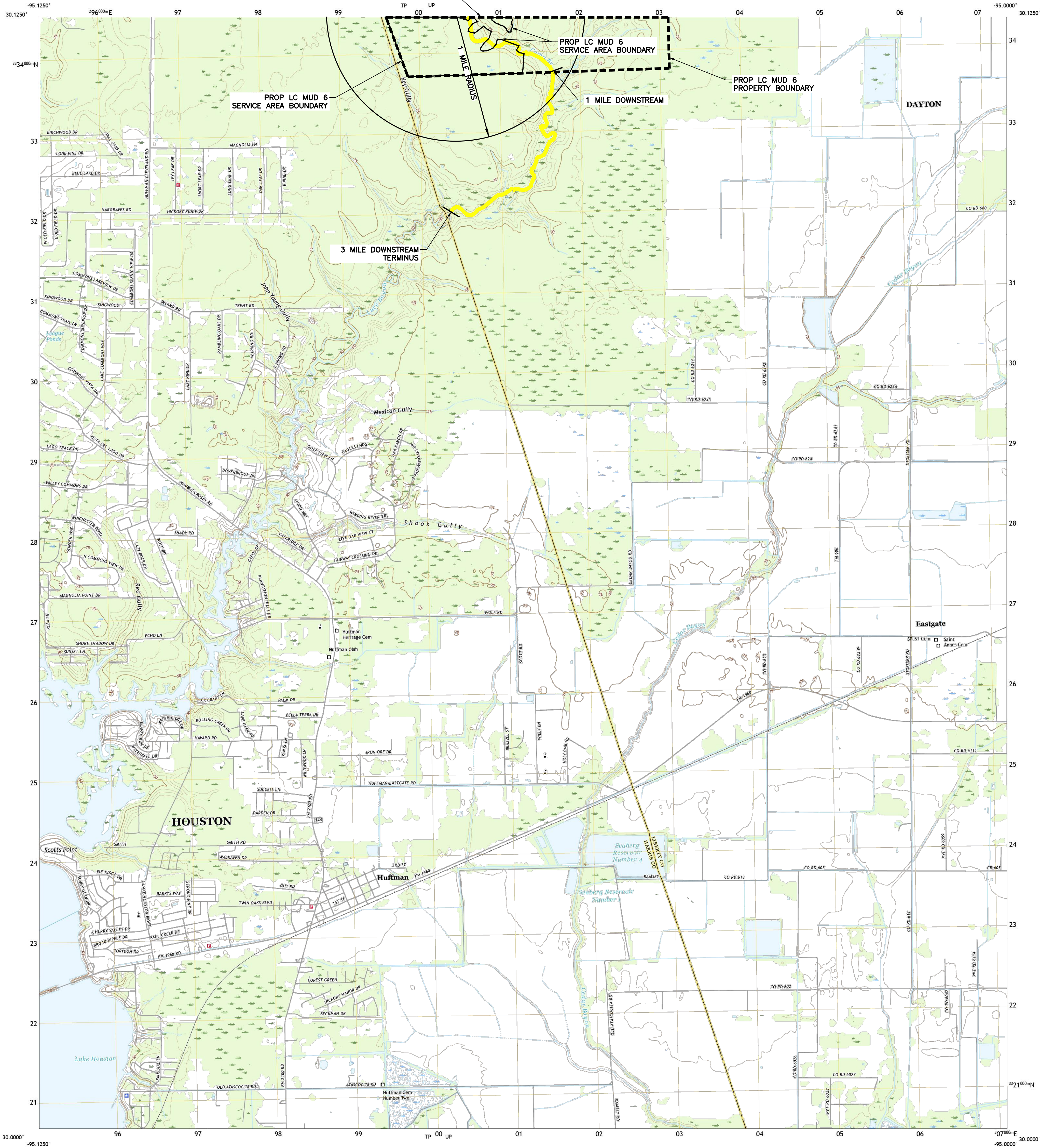
EXHIBIT 1
USGS PLUM GROVE QUAD



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

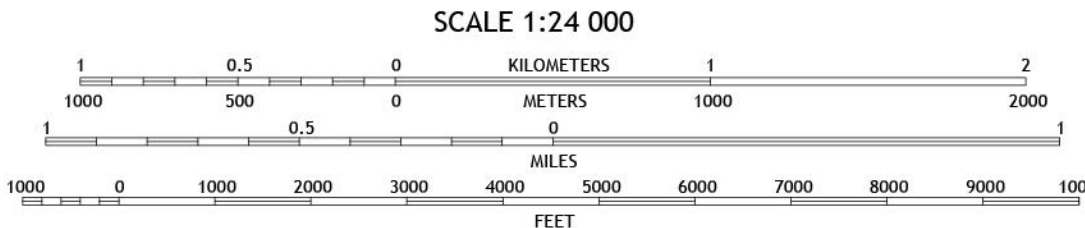
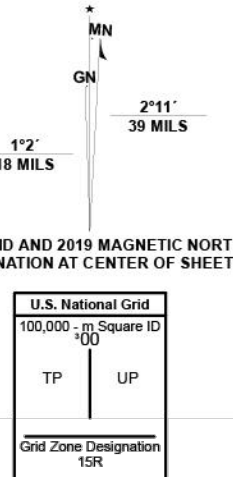


HUFFMAN QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1000-meter grid/Universal Transverse Mercator, Zone 18R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery	Source	Year
Topographic	USGS	2019
Hydrography	USGS	2019
Contours	National Elevation Dataset	2010
Boundaries	Multiple sources; see metadata file	2019 - 2021
Wetlands	FWS National Wetlands Inventory	Not Available



1	2	3
4	5	6
7	8	9

- 1 Splondora
- 2 Plum Grove
- 3 Simmons Bottom
- 4 Moonshine Hill
- 5 Dayton
- 6 Harmanston
- 7 Crosby
- 8 Shooks

ROAD CLASSIFICATION

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

HUFFMAN, TX
2022



LIBERTY COUNTY MUD NO 6
WWTP NO. 1
NEW TPDES PERMIT

EXHIBIT 1A
USGS HUFFMAN QUAD



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

LH Ranch, Ltd. (Pending CN) proposes to operate Liberty County MUD No. 6 Wastewater Treatment Plant No. 1 (RN Pending), a wastewater treatment plant that shall consist of one (1) elevated headwork, three (3) aeration basins, three (3) final clarifiers, six (6) aerobic digesters and three (3) chlorine contact basin. The facility will be located at approximately 2.41 miles southeast of the intersection of Grand Parkway and Plum Grove Road, in Huffman, Liberty County, Texas 77336. This application is for a new application to discharge at a daily average flow of 780,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 10 milligrams per liter (mg/L) of CBOD₅, 15 mg/L TSS, 3 mg/L NH₃-N, 1-4 mg/L chlorine and Escherichia coli (E. coli). Domestic wastewater will be treated by an activated sludge wastewater treatment plant operated in the complete mix mode with nitrification.

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

AGUAS RESIDUALES DOMESTICAS /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.

LH Ranch, LTd. (CN Pendiente) propone operar la Planta de Tratamiento de Aguas Residuales No. 1 del Distrito de Servicios Públicos Municipales del Condado Liberty No. 6 RN Pendiente, una planta de concreto que va a consistir en una (1) plataforma elevada, tres (3) tanques de aeración, tres (3) clarificadores finales, seis (6) digestores aeróbicos, y tres (3) tanques de contacto de cloro. La instalación estará ubicada en aproximadamente 2.41 miles sureste de la intersección del Grand Parkway and Plum Grove Road, en Huffman, Condado de Liberty, Texas 77336. Esta solicitud es para una nueva Sistema de Eliminación de Vertidos Contaminantes de Texas (TPDES) permiso para la descarga de aguas residuales tratadas a un volumen de promedio diario de 780,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno de cinco días (CBOD5) de 10 miligramos por litro (mg/L), sólidos suspendidos totales (SST) de 15 mg/L, nitrógeno amoniacal (NH3-N) de 3 mg/L, clorina de 1 a 4 mg/L, y Escherichia coli (E. coli). Las aguas residuales domesticas. **estará** tratado por una planta de proceso de lodos activados operada en modo de mezcla completa.

Erwin Madrid

From: Erwin Madrid
Sent: Wednesday, May 21, 2025 3:00 PM
To: Krystal Regner, P.E., ENV SP
Cc: Candice Calhoun; svallejo@ehra.team
Subject: Application for Proposed Permit No. WQ0016802001 – Notice of Deficiency 30-Day Will Return Letter
Attachments: WQ0016802001_Will Return Ltr.pdf
Importance: High

Dear applicant,

The attached Notice of Deficiency 30-Day Will Return Letter was mailed on **May 21, 2025**, requesting additional information needed to declare the application administratively complete. Please mail an original and two copies (with a cover letter) of the complete response by **June 20, 2025**.

Regards,

Erwin Madrid
Team Lead
ARP Team | Water Quality Division
512-239-2191
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail.

Candice Calhoun

From: Susy Vallejo, E.I.T. <svallejo@ehra.team>
Sent: Monday, June 2, 2025 7:05 PM
To: Candice Calhoun; Krystal Regner, P.E., ENV SP
Subject: RE: Application for Proposed Permit No. WQ0016802001 – Notice of Deficiency 30-Day Will Return Letter
Attachments: Attachment 4 - Affected Landowners List.pdf; Attachment 4A - Affected Landowners Mailing Labels.docx; Attachment 4A - Affected Landowners Mailing Labels.pdf; Exhibit 2 - Affected Landowners Map.pdf
Importance: High

Good evening, Candice,

Please excuse my delay in getting back to you. Attached are the following:

- Attachment 4 – Affected Landowners List (PDF)
- Attachment 4A – Affected Landowners Mailing Labels (PDF and Word)
- Exhibit 2 – Affected Landowners Map (PDF)

Please note that the affected landowners map has been revised and now matches the USGS maps. The client previously owned the land included in the previous Exhibit 2 but has since then sold the land.

Please let me know if you have any further questions.

Thank you,

Susy Vallejo, E.I.T.

Engineer III

10011 Meadowglen Lane

Houston, Texas 77042

Direct: 281.751.9961



TBPE No. F-726 | TBPLS No. 10092300

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, May 22, 2025 2:25 PM
To: Susy Vallejo, E.I.T. <svallejo@ehra.team>; Krystal Regner, P.E., ENV SP <kregner@ehra.team>
Subject: RE: Application for Proposed Permit No. WQ0016802001 – Notice of Deficiency 30-Day Will Return Letter

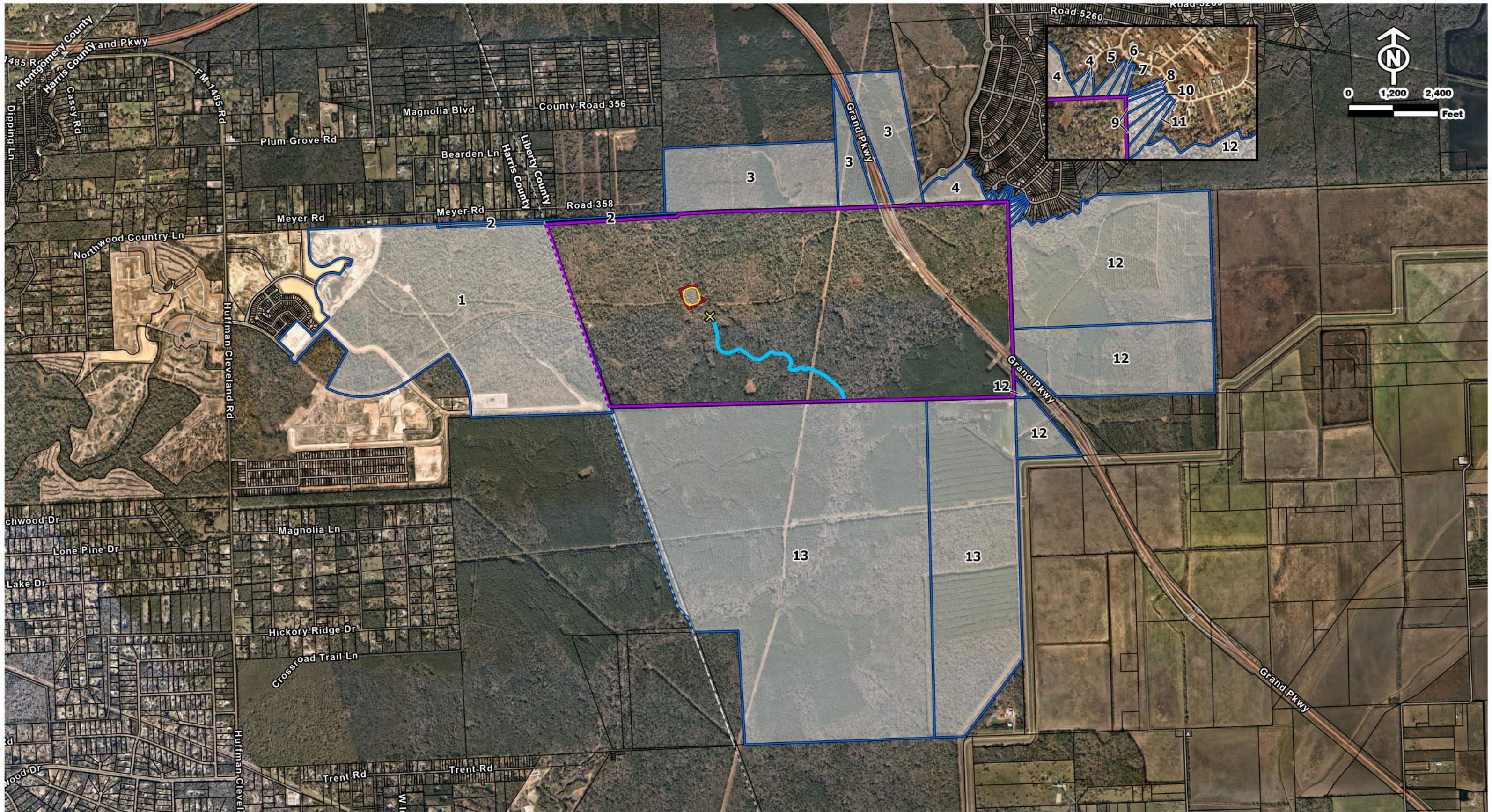
Susy,

You are welcome. That sounds good. 😊

Attachment 4 - Corresponding List of Downstream and Surrounding Landowners

(Corresponds to Administrative Report 1.0, Section 1.B, Page 12 of 17)

County	ID	Parcel ID	Current Owner	Mailing Address	City	State	Zip Code
Harris	1	2147483647	SAINT-TROPEZ LAGUNA AZURE LLC	2101 CEDAR SPRINGS RD SUITE 700	DALLAS	TX	775201
Liberty	2	105211	HARRIS COUNTY FLOOD CONTROL DIST	9900 NORTHWEST FWY SU 220	HOUSTON	TX	77092
Liberty	3	30769	CH-B KINGLAND LLC	1111 WEST 11TH ST	AUSTIN	TX	78703
Liberty	4	242707	COLONY RIDGE DEVELOPMENT LLC	PO BOX 279	FRESNO	TX	77545
Liberty	5	242313	SALINAS BELQUI ETELBINA &	9418 JAYWOOD DRIVE	HOUSTON	TX	77040
Liberty	6	242312	REESE COLLIN I	5316 LORRAINE DRIVE	BAYTOWN	TX	77521
Liberty	7	242311	TOVAR CARLOS HERRERA &	7514 PARK PLACE BOULEVARD	HOUSTON	TX	77087
Liberty	8	242306	PARRA JAIME	9623 SHADY TREE LANE	HOUSTON	TX	77086
Liberty	9	242305	CASTELLANOS NILSON ESMITH GOMEZ	3503 LEMON TREE LANE	HOUSTON	TX	77088
Liberty	10	242304	GOMEZ NILSON E	3503 LEMON TREE LANE	HOUSTON	TX	77088
Liberty	11	242302	NUNEZ SHELSY ALEXANDRA & CRISTIAN ZAIR INESTROZA GODOY	464 ROAD 5202	CLEVELAND	TX	77327
Liberty	12	255324	PATEL & PATEL LLC	2422 NEW CASTLE BEND	IRVING	TX	75063
Liberty	12	255324	FINSOL LLC	2805 MERRYGLEN	FLOWER MOUND	TX	75022
Liberty	12	255324	MEGHASAAAN LLC	9001 FOX HOLLOW TRAIL	IRVING	TX	75063
Liberty	12	255324	OSCARMILO LLC	15283 JAPANESE MAPLE LANE	FRISCO	TX	75035
Liberty	12	255324	RAAC INVESTMENTS LLC	1108 RANCH VISTA DR	IRVING	TX	75063
Liberty	12	255324	ROLLNIR LLC	428 LOMA ALTA DR	FRISCO	TX	75036
Liberty	12	255324	SAPTARSH INVESTMENTS GROUP LLC	14033 STARS RD	FRISCO	TX	75035
Liberty	12	255324	SIDDA HOLDINGS LLC	2909 SHADY CREED DR	FLOWER MOUND	TX	75022
Liberty	12	255324	STAD INVESTMENTS LLC	1060 VALLEY VISTA DR	IRVING	TX	75063
Liberty	12	255324	VENSUYA LLC	1008 SADDLE TREE TRAIL	IRVING	TX	75063
Liberty	12	255324	CASTLE FIELDS LLC	4300 SUNSET VIEW DR	DUBLIN	CA	94568
Liberty	12	255324	DGN CAPITAL MANAGEMENT LLC	2600 LEAFSPRAY LANE	FLOWER MOUND	TX	75022
Liberty	12	255324	SIX OAKS VENTURES LLC	14641 OVERLAND PARK LANE	FRISCO	TX	75035
Liberty	12	255324	POONURU LLC	2904 SHADY CREEK DR	FLOWER MOUND	TX	75022
Liberty	13	15712	PEMMASANI HUFFMAN INVESTMENTS LLC	9112 CYPRESS WATERS BLVD SUITE 300	COPPELL	TX	75019



Liberty County MUD No. 6 WWTP No. 1 New TPDES Permit Exhibit 2 - Affected Landowners Map

- X Outfall Point
- 1 Mile Downstream
- 150-Ft Buffer
- Parcels
- Service Area & Property Boundary
- Adjacent Parcels
- WWTP Boundary

SAINT-TROPEZ LAGUNA AZURE LLC
2101 CEDAR SPRINGS RD SUITE 700
DALLAS, TX 775201

HARRIS COUNTY FLOOD CONTROL
DIST
9900 NORTHWEST FWY SU 220
HOUSTON, TX 77092

CH-B KINGLAND LLC
1111 WEST 11TH ST
AUSTIN, TX 78703

COLONY RIDGE DEVELOPMENT LLC
PO BOX 279
FRESNO, TX 77545

SALINAS BELQUI ETELBINA &
9418 JAYWOOD DRIVE
HOUSTON, TX 77040

REESE COLLIN I
5316 LORRAINE DRIVE
BAYTOWN, TX 77521

TOVAR CARLOS HERRERA &
7514 PARK PLACE BOULEVARD
HOUSTON, TX 77087

PARRA JAIME
9623 SHADY TREE LANE
HOUSTON, TX 77086

CASTELLANOS NILSON ESMITH
GOMEZ
3503 LEMON TREE LANE
HOUSTON, TX 77088

GOMEZ NILSON E
3503 LEMON TREE LANE
HOUSTON, TX 77088

NUNEZ SHELSY ALEXANDRA &
CRISTIAN ZAIR INESTROZA GODOY
464 ROAD 5202
CLEVELAND, TX 77327

PATEL & PATEL LLC
2422 NEW CASTLE BEND
IRVING, TX 75063

FINSOL LLC
2805 MERRYGLEN
FLOWER MOUND, TX 75022

MEGHASAAN LLC
9001 FOX HOLLOW TRAIL
IRVING, TX 75063

OSCARMILO LLC
15283 JAPANESE MAPLE LANE
FRISCO, TX 75035

RAAC INVESTMENTS LLC
1108 RANCH VISTA DR
IRVING, TX 75063

ROLLNIR LLC
428 LOMA ALTA DR
FRISCO, TX 75036

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14033 STARS RD
FRISCO, TX 75035

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IRVING, TX 75063

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IRVING, TX 75063

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PEMMASANI HUFFMAN INVESTMENTS
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9112 CYPRESS WATERS BLVD SUITE
300
COPPELL, TX 75019