



# 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.*

Sagebrush 1 LLC (CN Pending ) proposes to operate Waller County Municipal Utility District No. 64 Wastewater Treatment Plant (RN Pending), a wastewater treatment plant that shall consist of one (1) elevated headwork, four (4) aeration basins, four (4) final clarifiers, eight (8) aerobic digesters and four (4) chlorine contact basin. The facility will be located at approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098., in Waller, Waller County, Texas 77445. This application is for a new application to discharge at a daily average flow of 900,000 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, and 1-4 mg/L chlorine. 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.*

Sagebrush 1 LLC (CN Pendiente) propone operar la Planta de Tratamiento de Aguas Residuales del Distrito de Servicios Públicos Municipales del Condado Waller No. 64 (RN Pendiente), una planta de concreto que va a consistir en una (1) plataforma elevada, cuatro (4) tanques de aeración, cuatro (4) clarificadores finales, ocho (8) digestores aeróbicos, y cuatro (4) tanques de contacto de cloro. La instalación estará ubicada en aproximadamente 0.82 millas noroeste de la intersección de Farm-to-Market 1488 y Farm-to-Market 1098, en Waller, Condado de Waller, Texas 77445. 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 900,000 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 domésticas. 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. WQ0016761001**

**APPLICATION.** Sagebrush 1 LLC, 1333 West Loop South, Suite 910, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016761001 (EPA I.D. No. TX0147664) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 900,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.82 miles northwest of the intersection of Farm-to-Market Road 1098 and Farm-to-Market Road 1488, near the city of Hempstead, in Waller County, Texas 77445. The discharge route will be from the plant site to a detention pond, thence to an unnamed tributary, thence to Ponds Creek, thence to Clear Creek, thence to Brazos River Below Navasota River. TCEQ received this application on March 21, 2025. The permit application will be available for viewing and copying at John B. Coleman Library – Prairie View A&M University, 130 L.W. Minor Street, Prairie View, in Waller 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=-96.0032,30.1262&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](http://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](http://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 Sagebrush 1 LLC at the address stated above or by calling Ms. Krystal Regner, P.E., EHRA Engineering, at 713-784-4500.

Issuance Date: April 14, 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. WQ0016761001

**SOLICITUD.** Sagebrush 1 LLC, 1333 West Loop South, Suite 910, Houston, Texas 77027, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016761001 (EPA I.D. No. TX0147664) 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 900,00 por día. La planta estará ubicada aproximadamente 0.82 millas noroeste de la intersección de Farm-to-Market Road 1098 y Farm-to-Market 1488, cerca de la ciudad de Hempstead, en el Condado de Waller, Texas 77445. La ruta de descarga será desde del sitio de la planta a un estanque de detención, de ahí a un afluente sin nombre, de ahí a Ponds Creek, de ahí a Clear Creek, de ahí a Rio Brazos bajo el Rio Navasota. La TCEQ recibió esta solicitud el 21 de marzo de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la Biblioteca John B. Coleman – Universidad Prairie View A&M, 130 L.W. Minor Street, Prairie View, en el Condado de Waller antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications> Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.0032,30.1262&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 periodos 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 envíe 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](http://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 Sagebrush 1 LLC a la dirección indicada arriba o llamando a la Sra. Krystal Regner, P.E., Gerente de Proyecto, EHRA Engineering al 713.784.4500.

Fecha de emisión el 14 de abril de 2025

**TCEQ DOMESTIC WASTEWATER PERMIT APPLICATION  
FOR  
WALLER COUNTY MUD NO. 64  
WASTEWATER TREATMENT PLANT  
NEW PERMIT APPLICATION**



**MARCH 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 Waller County MUD No. 64**  
**Wastewater Treatment Plant**

**List of Exhibits**

- Exhibit 1 – USGS Howth Quad Map  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1A – USGS Waller NW Quad Map  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1B – USGS Hempstead Quad Map  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1C – USGS Waller 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 5B – 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: Waller County Municipal Utility District No. 64

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

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

	Y	N		Y	N
Administrative Report 1.0	<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 checked="" 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: 059430  
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-Applicant Information (Instructions Page 26)

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

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

Sagebrush 1 LLC

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

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

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

CN: Pending

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

Prefix: MR.

Last Name, First Name: Kaplan, Itiel

Title: Manager

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

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

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, Texas 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, Texas 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, Texas 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, Texas 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: Click to enter text.  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Click to enter text.  
Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.  
Phone No.: Click to enter text. E-mail Address: Click to enter text.

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

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

Prefix: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

### A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Regner, Krystal  
Title: Project Engineer Credential: P.E.  
Organization Name: EHRA Engineering  
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 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 Engineer

Credential: P.E.

Organization Name: EHRA Engineering

Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 77042

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: John B. Coleman Library

Location within the building: Front Desk

Physical Address of Building: 130 L.W. Minor Street

City: Prairie View

County: Waller County

Contact (Last Name, First Name): Click to enter text.

Phone No.: 936.261.1519 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 Pending

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):

Waller County MUD No. 64 Wastewater Treatment Plant

C. Owner of treatment facility: Sagebrush 1 LLC

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

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

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

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

Organization Name: Sagebrush 1 LLC

Mailing Address: 1333 West Loop South, Suite 910 City, State, Zip Code: Houston, TX 77027

Phone No.: 832.804.9680 E-mail Address: Itiel@mapledevelopmentgroup.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:

Approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098 in Waller County, TX.

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 discharge from WWTP to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; then to Brazos River Below Navasota River; then to Brazos River Tidal.

City nearest the outfall(s): Hempstead

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

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: NOT APPLICABLE

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

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

☐ Yes      ☐ No

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

[Click to enter text.](#)

- B. City nearest the disposal site: [Click to enter text.](#)

- C. County in which the disposal site is located: [Click to enter text.](#)

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

[Click to enter text.](#)

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

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

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

☐ Yes      ☒ No

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

☐ Yes      ☐ No      ☒ Not Applicable

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

[Click to enter text.](#)

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

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

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

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

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

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

## Section 13. Attachments (Instructions Page 33)

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

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

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

- Applicant's property boundary
- 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: Sagebrush 1 LLC

Certification:

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

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

Signatory name (typed or printed): Itiel Kaplan

Signatory title: Manager

Signature:  Date: 2/3/2025  
(Use blue ink)

Subscribed and Sworn to before me by the said Itiel Kaplan  
on this 3<sup>rd</sup> day of February, 2025.  
My commission expires on the 18<sup>th</sup> day of October, 2025.

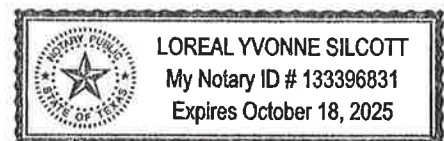


Notary Public

[SEAL]

Harris

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: Waller 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: 059430
2. Check or Money Order Amount: \$1,650.00
3. Date of Check or Money Order: 03/03/2025
4. Name on Check or Money Order: EHRA Engineering
5. APPLICATION INFORMATION

Name of Project or Site: Waller County MUD No. 64 Wastewater Treatment Plant

Physical Address of Project or Site: Waller 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

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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): 0.105

2-Hr Peak Flow (MGD): 0.420

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### B. Interim II Phase

Design Flow (MGD): 0.21

2-Hr Peak Flow (MGD): 0.84

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### C. Final Phase

Design Flow (MGD): 0.90

2-Hr Peak Flow (MGD): 3.60

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### 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 the first phase 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 the ultimate phase, the treatment units will consist of a mechanical bar screen with splitter box and four (4) bullseye treatment trains. Each of the four bullseye treatment trains will consist of an aeration basin, two (2) aerobic digesters, one (1) final clarifier and one (1) chlorine contact basin.

## 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, and 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: Click to enter text.
- Longitude: Click to enter text.

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, and 6B

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

Waller County MUD No. 64 Wastewater Treatment Facility will serve a residential development with light commercial development within Waller County. The residential development will ultimately serve 3,000 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
Waller County MUD No. 64 Collection System	Sagebrush 1 LLC	Publicly Owned	3,000 esfc
		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 and restrictive easement.

### 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.

Click to enter text.

#### 3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

Click to enter text.

#### 4. Grease and decanted liquid disposal

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

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

Click to enter text.

### E. Stormwater management

#### 1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

#### 2. MSGP coverage

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

#### 3. Conditional exclusion

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

☐ Yes ☐ No

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

Click to enter text.

**4. Existing coverage in individual permit**

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

☐ Yes ☐ No

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

Click to enter text.

**5. Zero stormwater discharge**

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

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

[Click to enter text.](#)

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

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

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

[Click to enter text.](#)

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

##### 1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

## Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 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 <sub>5</sub> , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, $\mu$ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, 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 <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: CrestPoint

Facility Operator's License Classification and Level: Click to enter text.

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

## 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 ( $\geq 2$  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): Transport 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  $1 \times 10^{-7}$  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: Itiel Kaplan

Title: Manager

Signature: 

Date: 2-3-25

# 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.

Waller County MUD No. 64 Wastewater Treatment Plant 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 capacity or 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](#)<sup>1</sup>.

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

##### 1. Municipally incorporated areas

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: [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

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<sup>1</sup> <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:** [Attachment 7](#)

### 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 7A](#)

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 BOD<sub>5</sub> Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): [Click to enter text.](#)

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

[Click to enter text.](#)

## B. Proposed organic loading

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

**Table 1.1(1) – Design Organic Loading**

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Municipality	0.90	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	0.90	
AVERAGE BOD <sub>5</sub> 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: 2

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: 2

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: 2

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: N/A

☐ 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 and 8A

**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.

[Click to enter text.](#)

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 6](#)

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: 3 ft

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

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☒ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [Click to enter text.](#)

Average depth of the entire water body, in feet: [Click to enter text.](#)

Average depth of water body within a 500-foot radius of discharge point, in feet:  
[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.

[Click to enter text.](#)

### D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

[Click to enter text.](#)

### E. Normal dry weather characteristics

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

[Click to enter text.](#)

Date and time of observation: [Click to enter text.](#)

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

## Section 5. General Characteristics of the Waterbody (Instructions Page 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 checked="" 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 type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## 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: February 22, 2025 Time of study: 11:15 AM

Stream name: Tributary stream of Ponds Creek which is a Tributary of Clear Creek

Location: LAT: 30° 7'31.23"N LONG : 96° 0'4.55"W

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: 2

Number of stream bends that are moderately defined: 5

Number of stream bends that are poorly defined: 3

Number of riffles: None

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 shows very minor to none flow fluctuations or channel obstruction/modification.

## 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**

<b>Stream type at transect</b> Select riffle, run, glide, or pool. See Instructions, Definitions section.	<b>Transect location</b>	<b>Water surface width (ft)</b>	<b>Stream depths (ft)</b> at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.	Downstream 1	9.1	3.0, 3.17
Choose an item.	Downstream 2	5.5	3.67, 3.0
Choose an item.	At Outfall	6.5	2.67, 2.33
Choose an item.	Upstream 1	6.3	4.0, 4.0
Choose an item.	Upstream 2	3.0	2.33, 2.33
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: [Click to enter text.](#)

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): .711

Length of stream evaluated, in feet: 10.33

Number of lateral transects made: 5

Average stream width, in feet: 6.08

Average stream depth, in feet: 3.05

Average stream velocity, in feet/second: 0.191 fps

Instantaneous stream flow, in cubic feet/second: 3.544

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Floating object timed over a fixed distance.

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

Maximum pool depth, in feet: .167

# 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 Howth Quad Map**

(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)

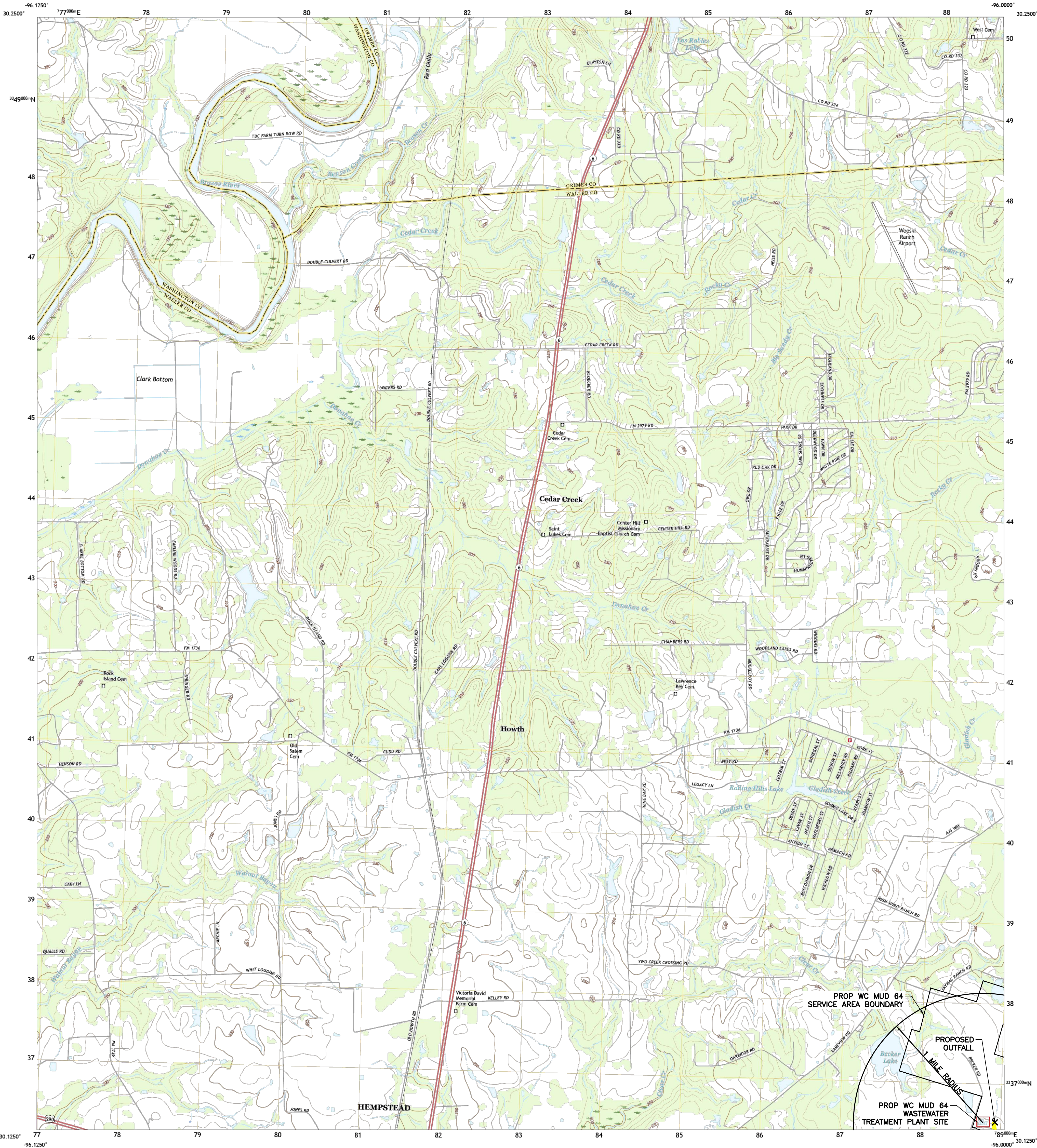




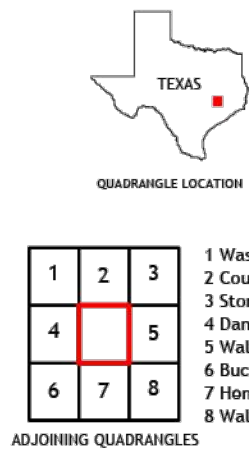
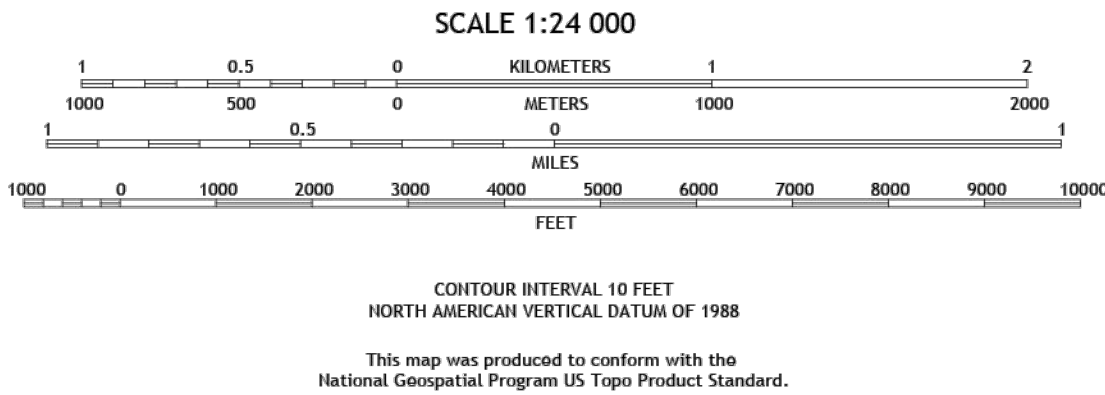
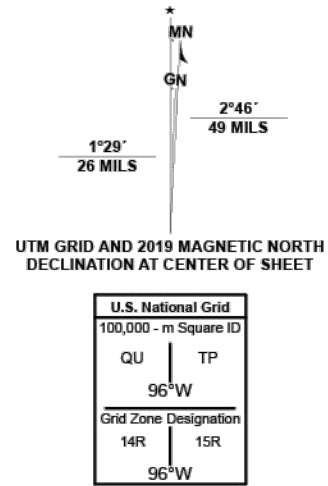
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HOWTH QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES

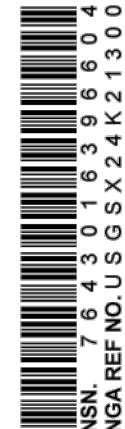


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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 14R.  
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generalized for this map scale. Private 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, 2002 - 2018  
Contours.....National Elevation Dataset, 2004  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



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

HOWTH, TX  
2022



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ENGINEERING THE FUTURE  
SINCE 1936  
WALLER COUNTY MUD NO 64 WWTP  
NEW TPDES PERMIT

EXHIBIT 1  
USGS HOWTH QUAD



**Exhibit 1A – USGS Waller NW Quad Map**  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)

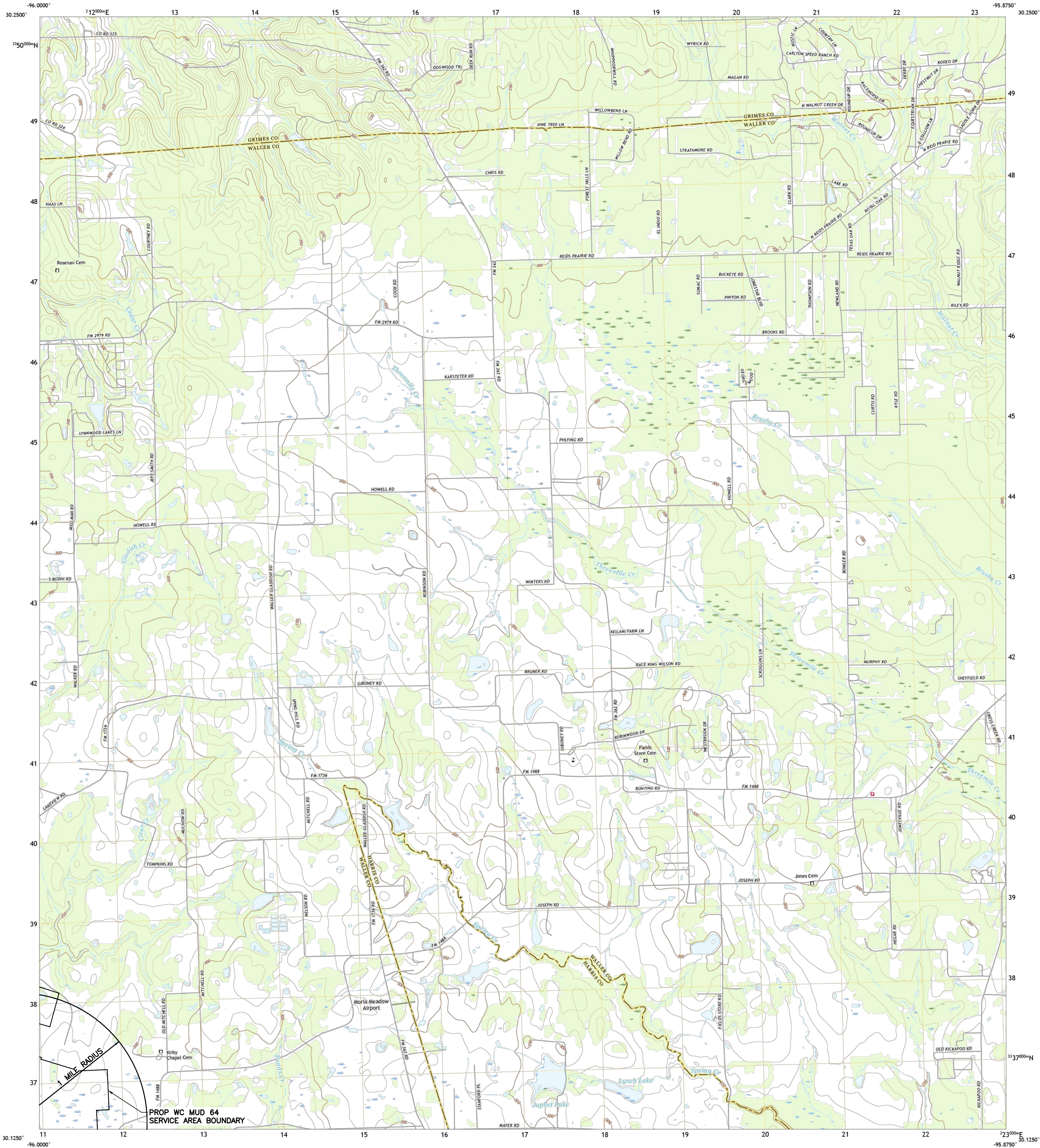




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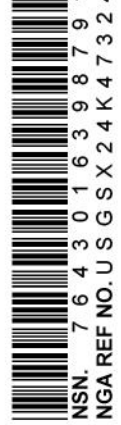
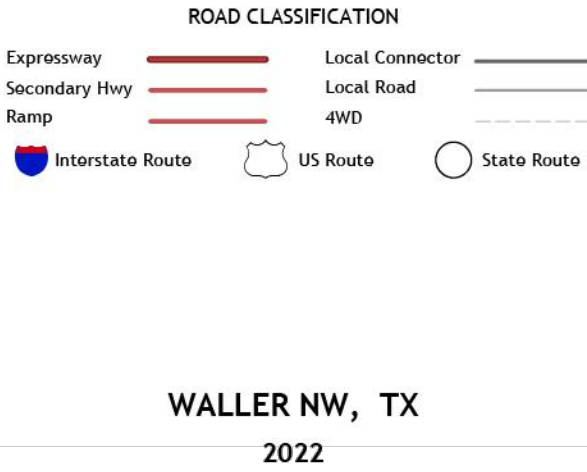
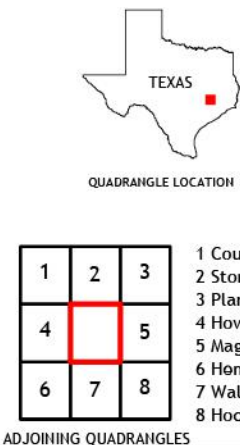
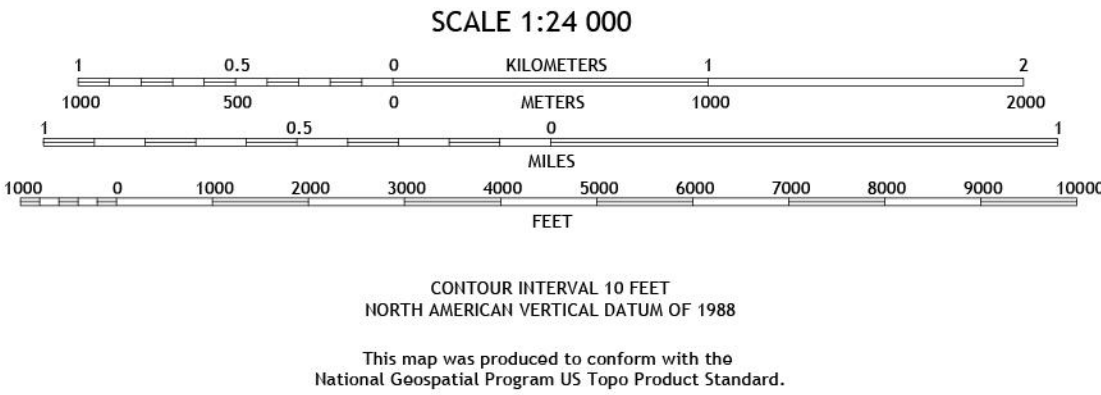
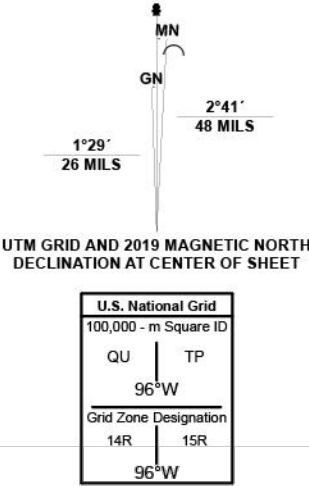


WALLER NW QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1000-meter grid/Universal Transverse Mercator, Zone 14R15R  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Hams.....GHRS, Not Available  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\USGS QUAD MAP.dwg Feb 24, 2025-6:13pm Edited by: Svallejo



**Exhibit 1B – USGS Hempstead Quad Map**  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)

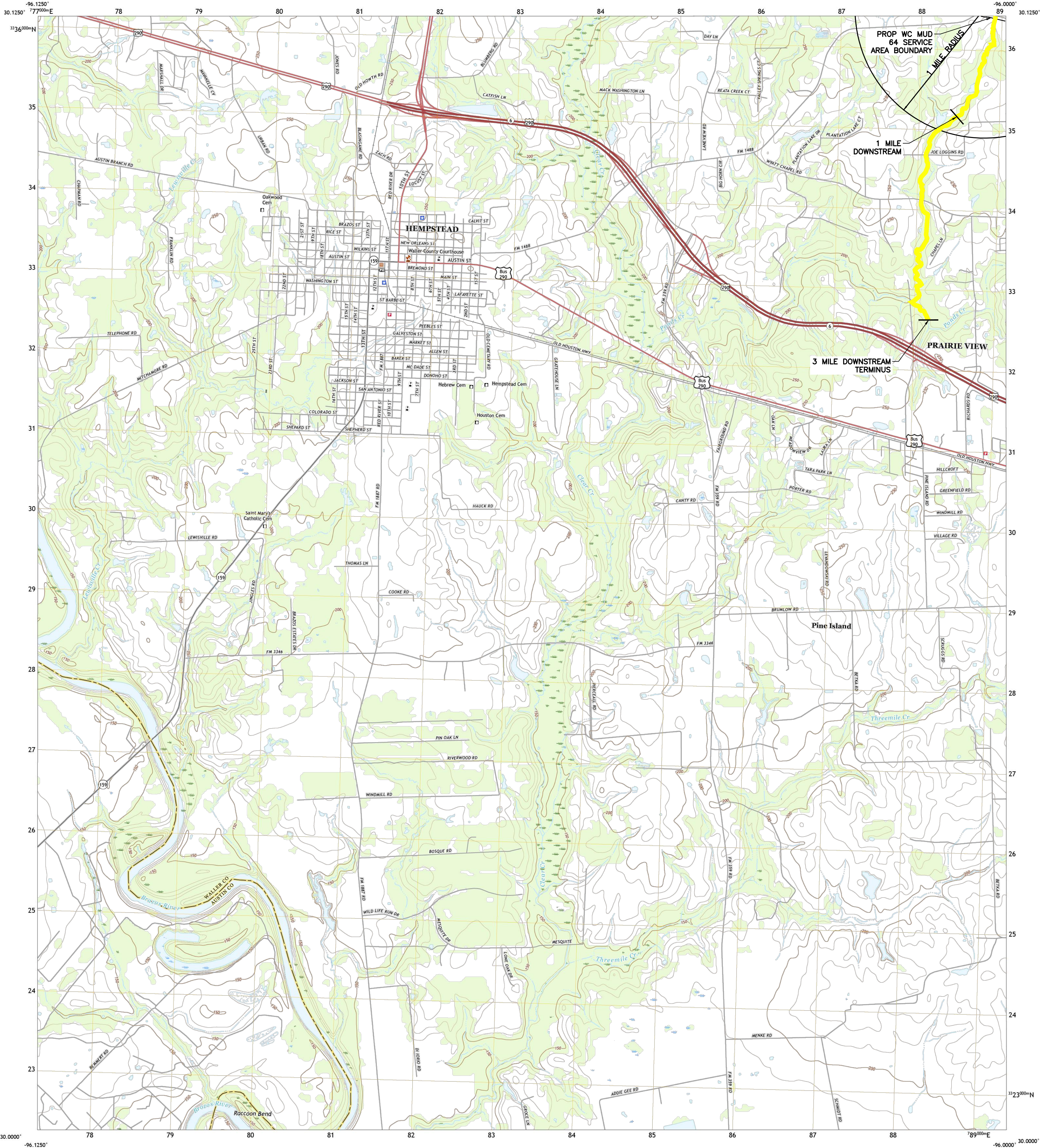




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HEMPSTEAD QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNIS, 1979 - 2021  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2004  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available

UTM GRID AND 2019 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET  
U.S. National Grid  
QU TP  
Grid Zone Designation  
14R 15R  
96°W 96°W

SCALE 1:24 000  
1 000 0 0.5 1 2  
1000 500 0 500 1000 2000  
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000  
FEET  
CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard.

TEXAS  
QUADRANGLE LOCATION  
ADJOINING QUADRANGLES  
1 Daniels  
2 Howls  
3 Waller HW  
4 Buckhorn  
5 Waller  
6 Burleigh  
7 Sunny Side  
8 Hockley Mount

ROAD CLASSIFICATION  
Expressway  
Secondary Hwy  
Ramp  
Interstate Route  
Local Connector  
Local Road  
4WD  
US Route  
State Route  
HEMPSTEAD, TX  
2022



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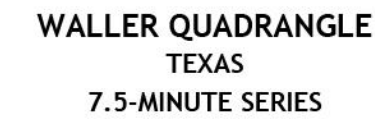
EXHIBIT 1B  
USGS HEMPSTEAD QUAD



## **Exhibit 1C – USGS Waller Quad Map**

(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)



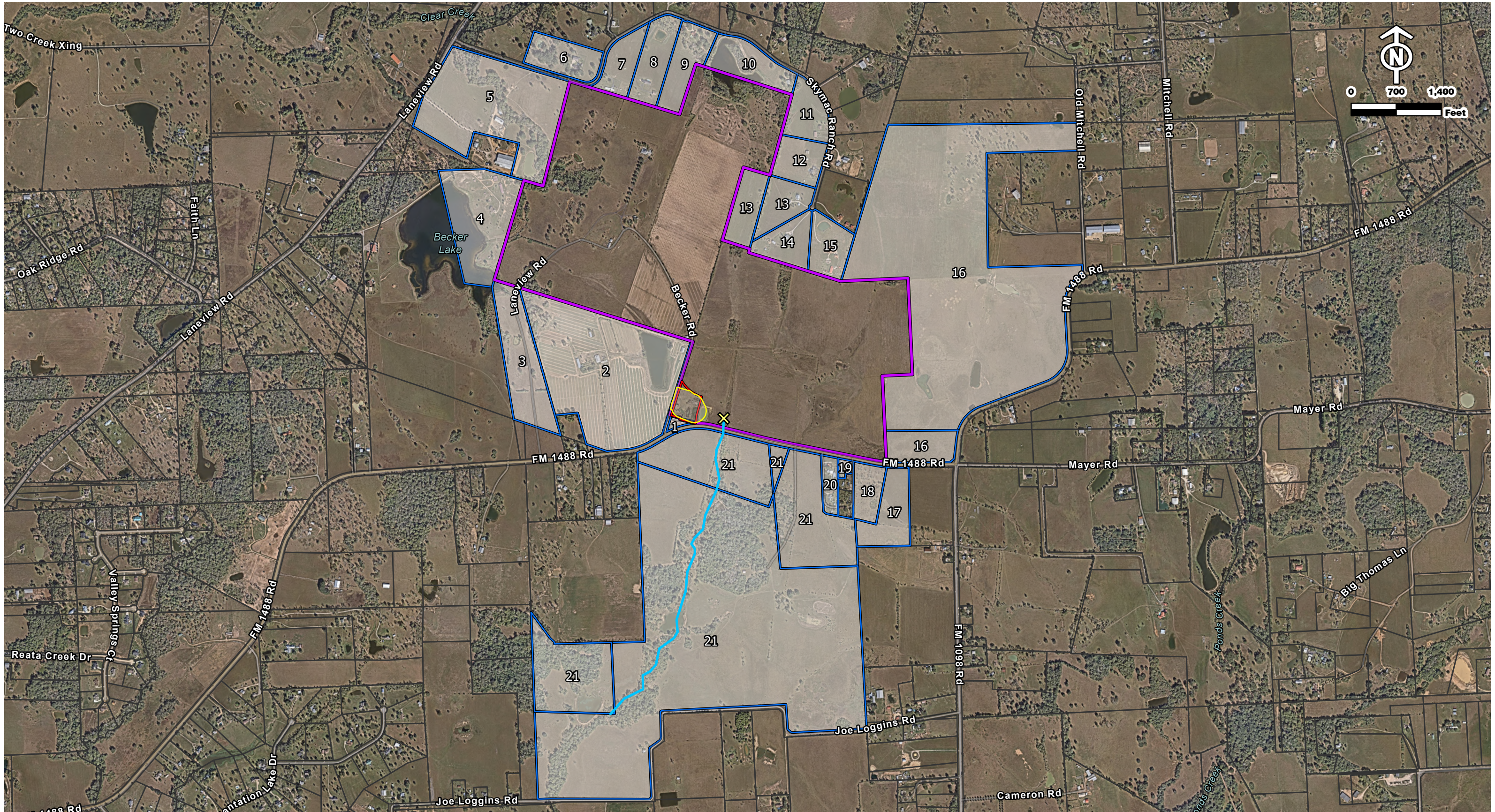




## **Exhibit 2 – Affected Landowner Map**

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





# Waller County MUD No. 64 WWTP

## 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

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 18)





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NEW TPDES PERMIT

EXHIBIT 3  
PHOTO 1  
UPSTREAM





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NEW TPDES PERMIT**

EXHIBIT 3  
PHOTO 2  
OUTFALL





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SINCE 1985

**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

EXHIBIT 3  
PHOTO 3  
DOWNSTREAM





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Since 1996

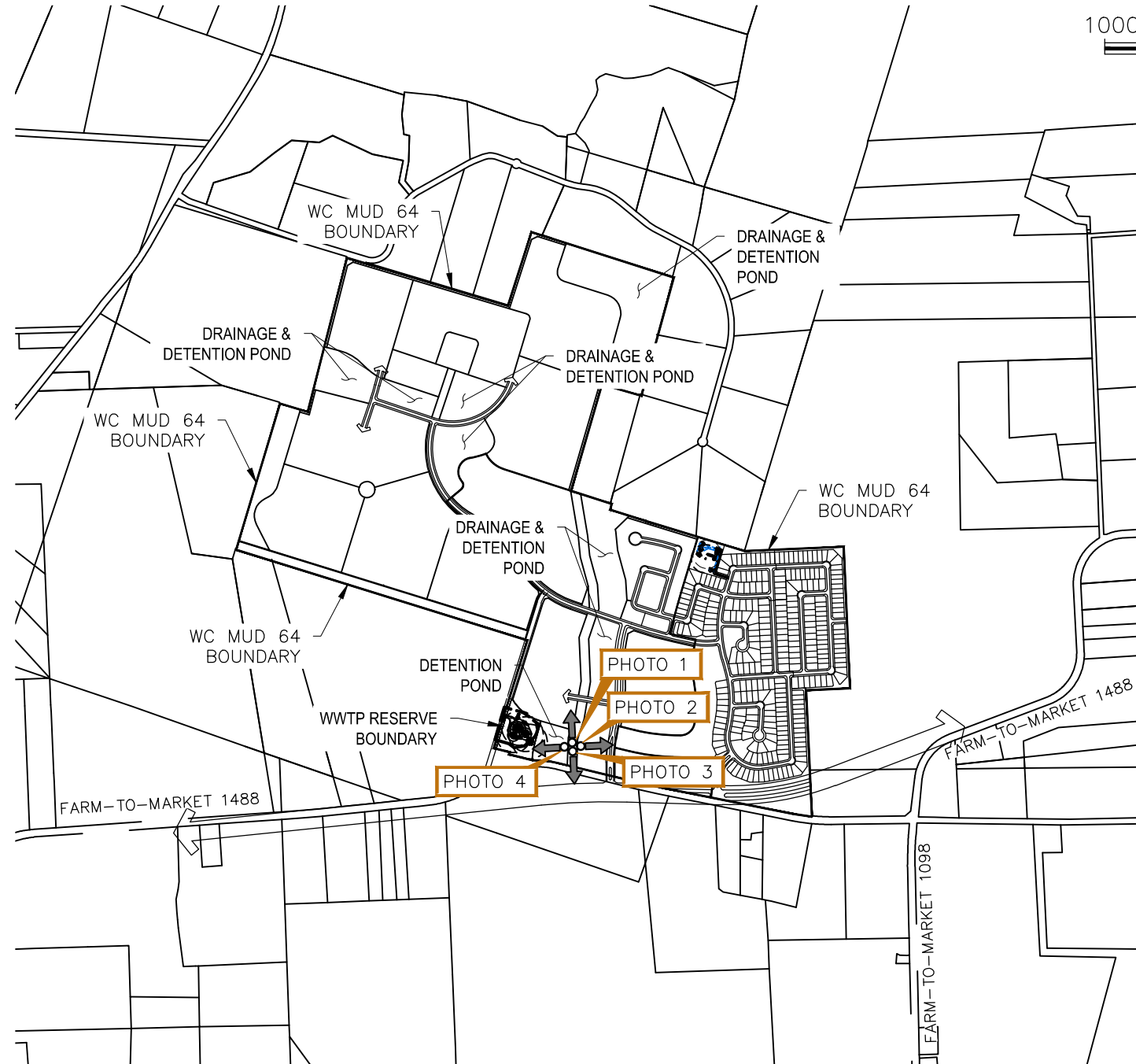
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NEW TPDES PERMIT**

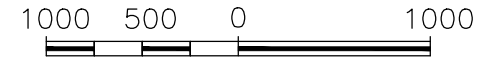
EXHIBIT 3  
PHOTO 4  
WWTP SITE



**Exhibit 3A – Photograph Reference Map**  
(Corresponds to Administrative Report 1.1, Section 2, Page 14 of 18)



ZIP CODE: 77445



○  
PHOTO LOCATION



WWTP LOCATION



SERVICE AREA



CAMERA  
DIRECTION



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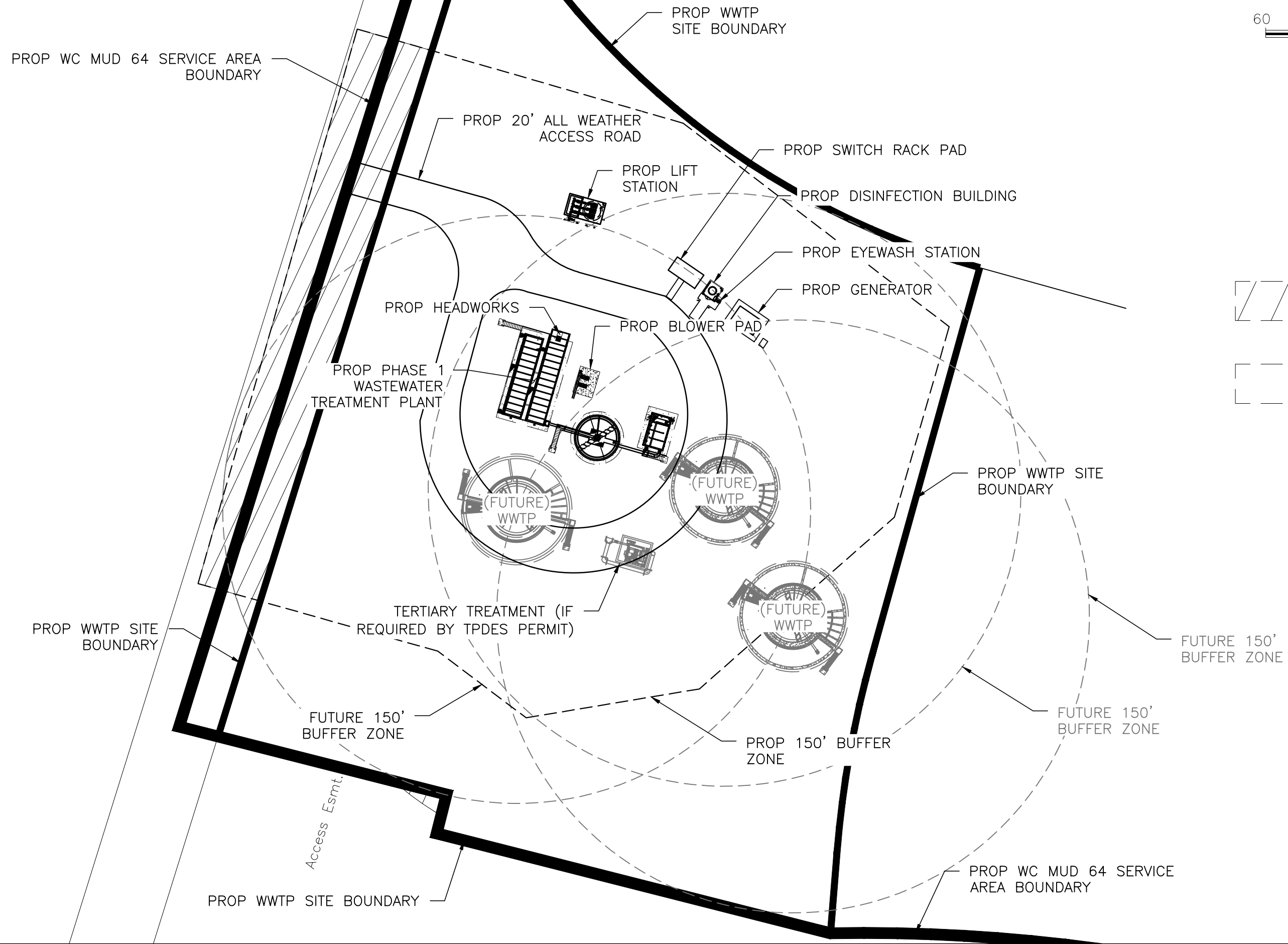
**WALLER COUNTY MUD NO 65  
NEW TPDES PERMIT**


EXHIBIT 3A  
PHOTOGRAPH  
REFERENCE MAP

## **Exhibit 4 – Buffer Zone Map**

(Corresponds to Administrative Report 1.1, Item 3.A, Page 14 of 18)

P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\EXHIBIT 4 BUFFER ZONE MAP.dwg Mar 03, 2025-4:19pm Edited by: SVallejo





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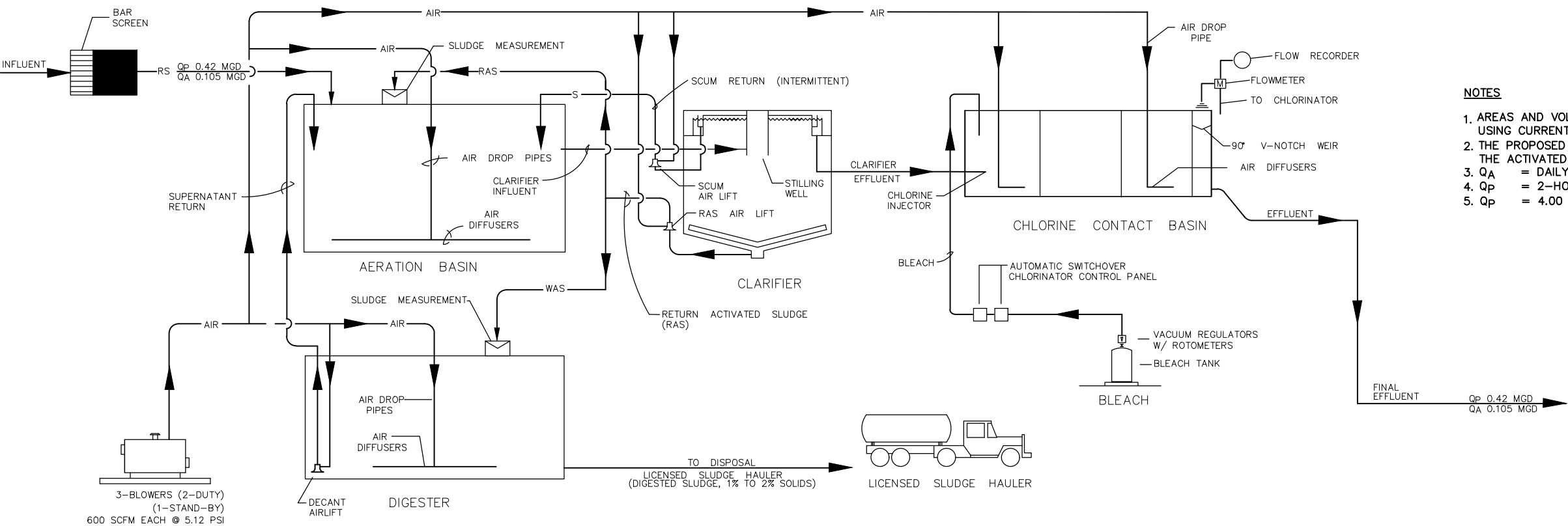
WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

EXHIBIT 4  
BUFFER ZONE MAP

**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 <sub>A</sub> (gpd)	105,000
Flow, Q <sub>P</sub> (gpd)	420,000
Flow, Q <sub>A</sub> (gpm)	73
ESFC Served 300 gpd	350
Aeration Capacity (cu ft.)	7,682
Clarifier Capacity (cu ft.)	6,786
Digester Capacity (cu ft.)	6,658
Chlorine Contact Chamber Capacity (cu ft.)	1,140



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<sub>A</sub> = DAILY AVERAGE FLOW = 0.105 MGD = 0.16 CFS
4. Q<sub>P</sub> = 2-HOUR PEAK FLOW = 0.42 MGD = 0.65 CFS
5. Q<sub>P</sub> = 4.00 \* Q<sub>A</sub>

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

VESSEL DESIGNATION

PROPOSED CONSTRUCTION:

Aeration (1 Basin)	60.0 ft. long x 12.0 ft. wide x 10.67 ft. SWD
Digester (1 Basins)	52.0 ft. long x 12.0 ft. wide x 10.67 ft. SWD
Clarifier (1 Basin)	24.0 ft. Dia. x 15.0 ft. SWD
Chlorine Contact (1 Basin)	10.0 ft. long x 12.0 ft. wide x 9.50 ft. SWD

DIMENSIONS

VOLUME

7,682 ft <sup>3</sup>
6,658 ft <sup>3</sup>
6,786 ft <sup>3</sup>
1,140 ft <sup>3</sup>

PROCESS FLOW DIAGRAM



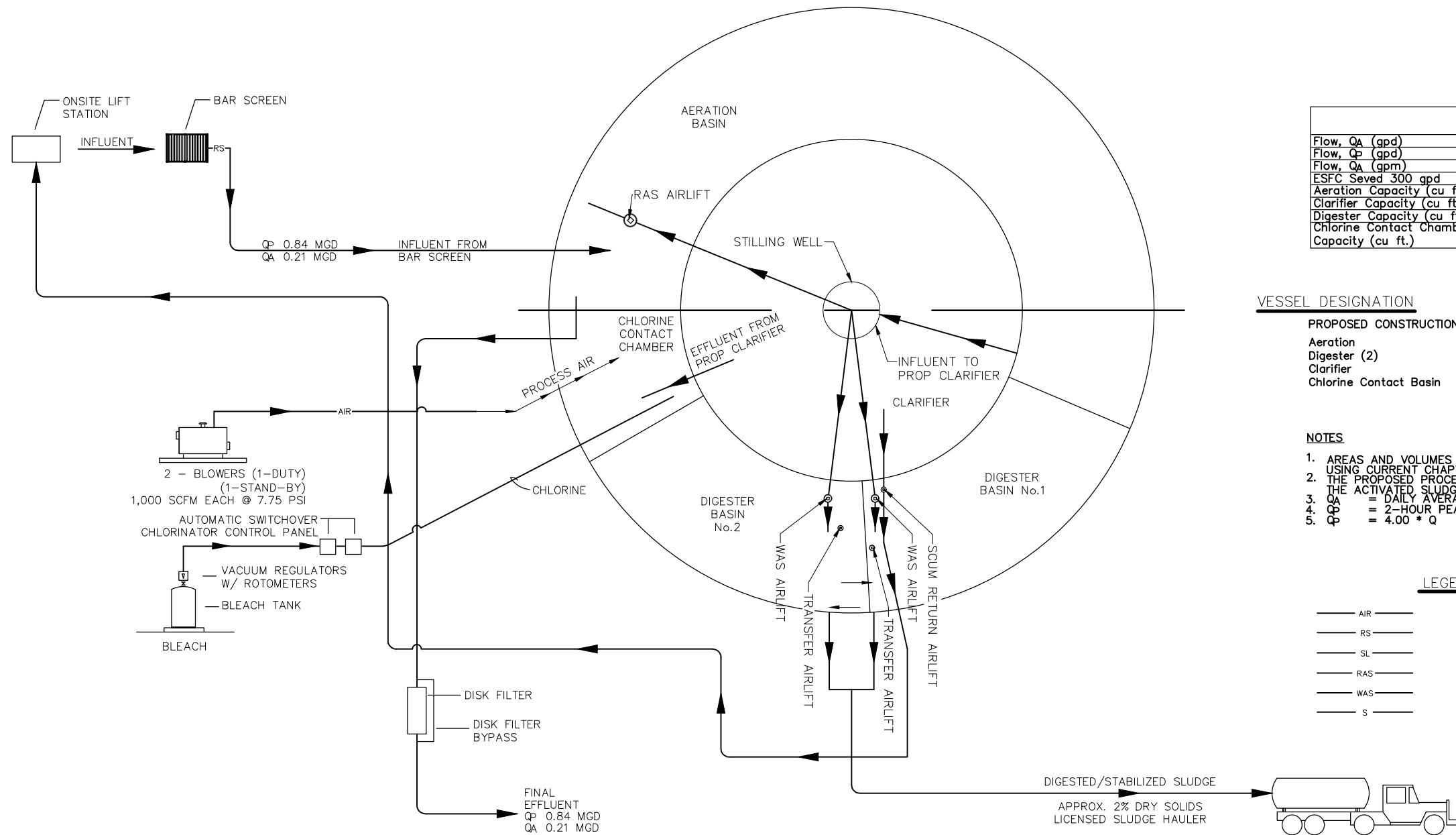
WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

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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	INTERIM PHASE 2*
Flow, QA (gpd)	210,000
Flow, QP (gpd)	840,000
Flow, QA (gpm)	146
ESFC Seved 300 gpd	700
Aeration Capacity (cu ft.)	16,800
Clarifier Capacity (cu ft.)	12,063
Digester Capacity (cu ft.)	11,648
Chlorine Contact Chamber Capacity (cu ft.)	4,041

\* PHASE 2 TO REPLACE PHASE 1 ENTIRELY.

VESSEL DESIGNATION	DIMENSIONS	PROPOSED VOLUME	DEGREES
PROPOSED CONSTRUCTION:			
Aeration	75.0 ft. L x 14.0 ft. W x 16.0 ft. SWD	16,800 ft <sup>3</sup>	180
Digester (2)	26.0 ft. L x 14.0 ft. W x 16.0 ft. SWD	11,648 ft <sup>3</sup>	135
Clarifier	32.0 ft. Dia. x 15.0 ft. SWD	12,063 ft <sup>3</sup>	N/A
Chlorine Contact Basin	16.0 ft. L x 14.0 ft. W x 15.0 ft. SWD	4,041 ft <sup>3</sup>	45

#### 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. QA = DAILY AVERAGE FLOW = 0.21 MGD = 0.33 CFS
4. QP = 2-HOUR PEAK FLOW = 0.84 MGD = 1.30 CFS
5. QP = 4.00 \* QA

PROCESS FLOW DIAGRAM

**EHRA** 10011 Meadowglen Lane  
Houston, Texas 77042  
EHRAInc.com | 713.784.1800  
TWP No. 7-236 | TWP No. 10-02000

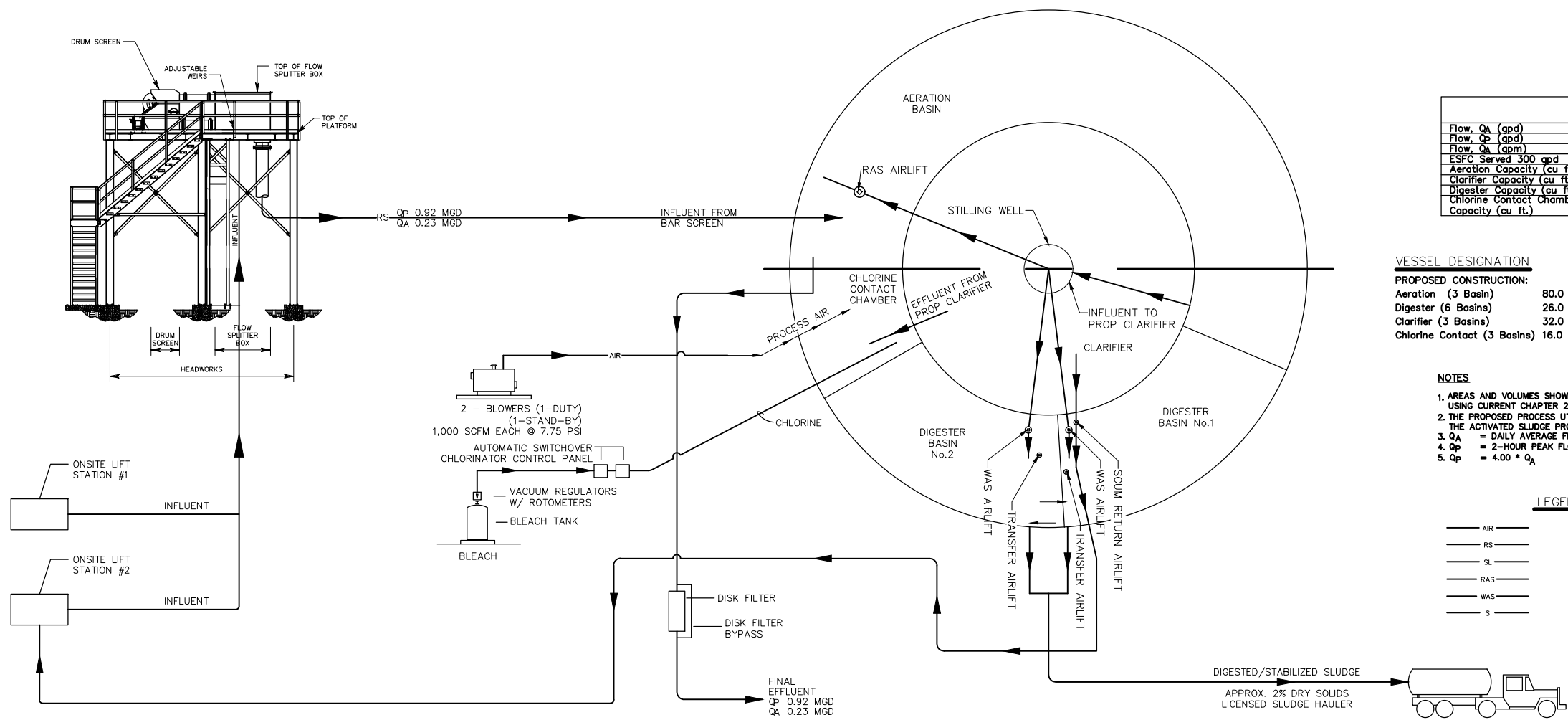
WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

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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NOTE: ULTIMATE PHASE WILL PROPOSE THREE IDENTICAL TRAINS. PROCESS FLOW DIAGRAM IS A REPRESENTATION OF A SINGLE TRAIN.



PROCESS FLOW DIAGRAM

	(existing)	+	(CONSTRUCTION)	=	(TOTAL)
Flow, Q <sub>a</sub> (gpd)	210,000		690,000		900,000
Flow, Q <sub>p</sub> (gpd)	840,000		2,760,000		3,600,000
Flow, Q <sub>a</sub> (gpm)	146		479		625
ESFC Served 300 gpd	700		2,300		3,000
Aeration Capacity (cu ft.)	16,800		53,760		70,560
Clarifier Capacity (cu ft.)	12,063		36,191		48,255
Digester Capacity (cu ft.)	11,648		34,944		46,592
Chlorine Contact Chamber Capacity (cu ft.)	4,041		10,776		14,817

VESSEL DESIGNATION	DIMENSIONS	VOLUME	DEGREES
PROPOSED CONSTRUCTION:			
Aeration (3 Basins)	80.0 ft. long x 14.0 ft. wide x 16.0 ft. SWD	17,920 ft <sup>3</sup>	190
Digester (6 Basins)	26.0 ft. long x 14.0 ft. wide x 16.0 ft. SWD	11,648 ft <sup>3</sup>	130
Clarifier (3 Basins)	32.0 ft. Dia. x 15.0 ft. SWD	12,064 ft <sup>3</sup>	N/A
Chlorine Contact (3 Basins)	16.0 ft. long x 14.0 ft. wide x 15.0 ft. SWD	3,592 ft <sup>3</sup>	40

- 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<sub>A</sub> = DAILY AVERAGE FLOW = 0.69 MGD = 1.07 CFS
  - Q<sub>p</sub> = 2-HOUR PEAK FLOW = 2.760 MGD = 4.27 CFS
  - Q<sub>p</sub> = 4.00 \* Q<sub>A</sub>

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



WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

EXHIBIT 5B  
PROCESS FLOW DIAGRAM  
ULTIMATE PHASE

## **Exhibit 6 – Service Area Map**

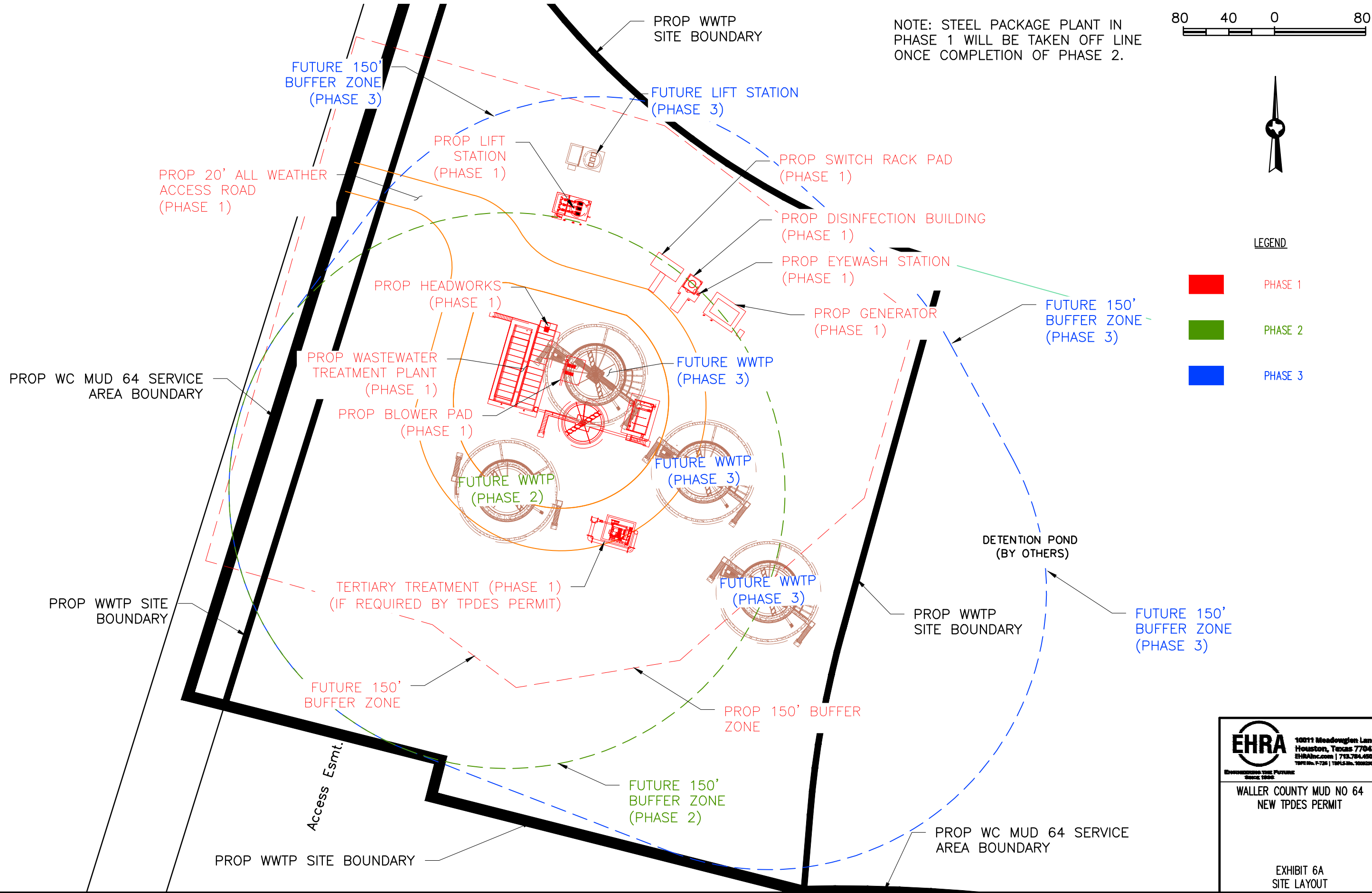
(Corresponds to Technical Report 1.0, Section 3, Page 3 of 66)



## **Exhibit 6A – Site Layout**

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

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10011 Meadowglen Lane  
Houston, Texas 77042  
EHRAInc.com | 713.784.1600  
Toll-free: 1-800-391-1600

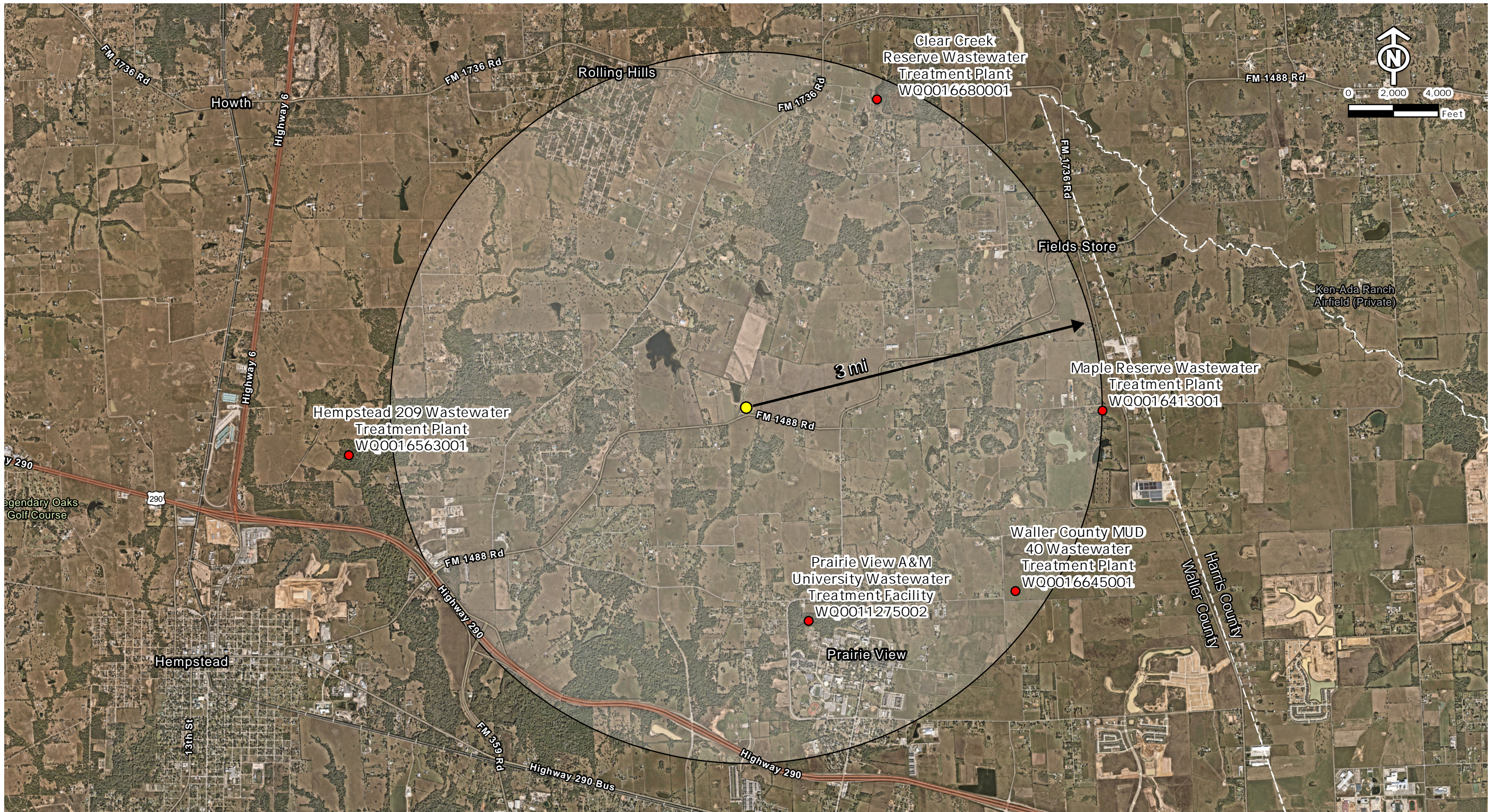
WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

EXHIBIT 6A  
SITE LAYOUT

## **Exhibit 7 – Regionalization Map**

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





# Waller County MUD No. 64 WWTP New TPDES Permit

## Exhibit 7 - WWTPs Within 3 Mile Radius

- Wastewater Treatment Plants
- Waller County MUD No. 64 WWTP
- 3 Mile Buffer



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.



## **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

<b>1. Reason for Submission</b> (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	
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN		RN

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (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>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Sagebrush 1 LLC					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	
0805640276		32096077402			
<b>10. DUNS Number</b> (if applicable)					
<b>11. Type of Customer:</b>		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>			
<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			
<b>14. Customer Role</b> (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					
<b>15. Mailing Address:</b>		Sagebrush 1 LLC			
		1333 West Loop South, Suite 910			
City		Houston		State	TX
ZIP		77027		ZIP + 4	9116
<b>16. Country Mailing Information</b> (if outside USA)			<b>17. E-Mail Address</b> (if applicable)		
			ltiel@mapledevelopmentgroup.com		

<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number (if applicable)</b>
( 832 ) 804-9680		(   ) -

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (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>								
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)								
Waller County Municipal Utility District No. 64 Wastewater Treatment Plant								
<b>23. Street Address of the Regulated Entity:</b>  (No PO Boxes)	TBD							
	<b>City</b>		<b>State</b>		<b>ZIP</b>		<b>ZIP + 4</b>	
<b>24. County</b>								

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

<b>25. Description to Physical Location:</b>	Approximately 0.82 miles northwest of the intersection of Farm-to-Markter 1488 and Farm-to-Markter 1098							
<b>26. Nearest City</b>	<b>State</b>				<b>Nearest ZIP Code</b>			
Hempstead	TX				77445			
<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>								
<b>27. Latitude (N) In Decimal:</b>		30.1262			<b>28. Longitude (W) In Decimal:</b>		96.0032	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	07	34.35	96	00	11.55			
<b>29. Primary SIC Code</b> (4 digits)	<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)			<b>32. Secondary NAICS Code</b> (5 or 6 digits)		
<b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.)								
Wastewater Treatment Plant								
<b>34. Mailing Address:</b>	Sagebrush 1 LLC							
	1333 West Lopp South, Suite 910							
	<b>City</b>	Houston	<b>State</b>	TX	<b>ZIP</b>	77027	<b>ZIP + 4</b>	
<b>35. E-Mail Address:</b>	Itiel@mapledevelopmentgroup.com							
<b>36. Telephone Number</b>	<b>37. Extension or Code</b>				<b>38. Fax Number (if applicable)</b>			
( 832 ) 804-9680					(   ) -			

**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**

<b>40. Name:</b>	Krsytal Regner, P.E.	<b>41. Title:</b>	Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>
( 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.

<b>Company:</b>	Sagebrush 1 LLC	<b>Job Title:</b>	Manager
<b>Name (In Print):</b>	Itiel Kaplan	<b>Phone:</b>	( 832 ) 804- 9680
<b>Signature:</b>		<b>Date:</b>	2/3/2025

**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.*

Sagebrush 1 LLC (CN Pending ) proposes to operate Waller County Municipal Utility District No. 64 Wastewater Treatment Plant (RN Pending), a wastewater treatment plant that shall consist of one (1) elevated headwork, four (4) aeration basins, four (4) final clarifiers, eight (8) aerobic digesters and four (4) chlorine contact basin. The facility will be located at approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098., in Waller, Waller County, Texas 77445. This application is for a new application to discharge at a daily average flow of 900,000 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, and 1-4 mg/L chlorine. 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.*

Sagebrush 1 LLC (CN Pendiente) propone operar la Planta de Tratamiento de Aguas Residuales del Distrito de Servicios Públicos Municipales del Condado Waller No. 64 (RN Pendiente), una planta de concreto que va a consistir en una (1) plataforma elevada, cuatro (4) tanques de aeración, cuatro (4) clarificadores finales, ocho (8) digestores aeróbicos, y cuatro (4) tanques de contacto de cloro. La instalación estará ubicada en aproximadamente 0.82 millas noroeste de la intersección de Farm-to-Market 1488 y Farm-to-Market 1098, en Waller, Condado de Waller, Texas 77445. 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 900,000 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 domésticas. **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 1.1, Section 1.B, Page 13 of 18)

ID	Parcel ID	Current Owner	Address	City	State	Zip
1	9598	VAIL LUTHER J	P O BOX 388	WALLER	TX	77484
2	9592	WATSON J F TRUSTEE	4024 SPRING CYPRESS RD	SPRING	TX	77388
3	9586	TERPSTRA PETER S	19815 BECKER RD	HOCKLEY	TX	77447
4	243553	RUSSELL JULIE A	24580 LANEVIEW RD	HEMPSTEAD	TX	77445
5	268918	RADHA SOAMI SOCIETY BEAS AMERICA	4115 GILLESPIE ST	FAYETTEVILLE	NC	28306
6	236909	HUMPHRIES REAL ESTATE LLC	24998 MITCHELL RD	HEMPSTEAD	TX	77445
7	236911	BRANDA THOMAS & SHERRY &	29623 SKYMAC RANCH ROAD	HEMPSTEAD	TX	77445
8	236913	RICKEN JEFFREY & ABBE	29541 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
9	236915	THOMPSON MICHAEL J & DIANNE M	29501 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
10	237949	MITCHAM DANNY & ARTIE	29451 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
11	237948	LAAKE JAMES D & LISA D	29351 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
12	237947	EARDLEY WALTER A & REGINA A	29271 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
13	237946	FRANKLIN DAN L & LEA ANN	29221 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
14	237945	HEAP LANCE E & JENA M	29201 SKYMAC RANCH ROAD	HEMPSTEAD	TX	77445
15	237944	SARANDOS GEORGE & ATHENA	29200 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
16	9214	SRO INVESTMENTS LTD	8830 LONG POINT, SUITE 700	HOUSTON	TX	77055
17	167071	PHILLIPS PAUL W & VICKY	23912 FM 1098	HEMPSTEAD	TX	77445
18	9280	BUI NGOCDUNG THI	18723 FOX PRAIRIE	HOUSTON	TX	77084
19	9254	ZIENTEK LARRY	37395 FM 1488 ROAD	HEMPSTEAD	TX	77445
20	9253	BONACASSIO PROPERTY LLC	28565 MELLMAN ROAD	HEMPSTEAD	TX	77445
21	151768	CC WALLER 1488 LP	9955 BARKER CYPRESS #250	CYPRESS	TX	77433

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

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



VAIL LUTHER J  
P O BOX 388  
WALLER, TX 77484

WATSON J F TRUSTEE  
4024 SPRING CYPRESS RD  
SPRING, TX 77388

TERPSTRA PETER S  
19815 BECKER RD  
HOCKLEY, TX 77447

RUSSELL JULIE A  
24580 LANEVIEW RD  
HEMPSTEAD, TX 77445

RADHA SOAMI SOCIETY BEAS  
AMERICA  
4115 GILLESPIE ST  
FAYETTEVILLE, NC 28306

HUMPHRIES REAL ESTATE LLC  
24998 MITCHELL RD  
HEMPSTEAD, TX 77445

BRANDA THOMAS & SHERRY &  
29623 SKYMAC RANCH ROAD  
HEMPSTEAD, TX 77445

RICKEN JEFFREY & ABBE  
29541 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

THOMPSON MICHAEL J & DIANNE  
M  
29501 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

MITCHAM DANNY & ARTIE  
29451 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

LAAKE JAMES D & LISA D  
29351 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

EARDLEY WALTER A & REGINA A  
29271 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

FRANKLIN DAN L & LEA ANN  
29221 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

HEAP LANCE E & JENA M  
29201 SKYMAC RANCH ROAD  
HEMPSTEAD, TX 77445

SARANDOS GEORGE & ATHENA  
29200 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

SRO INVESTMENTS LTD  
8830 LONG POINT, SUITE 700  
HOUSTON, TX 77055

PHILLIPS PAUL W & VICKY  
23912 FM 1098  
HEMPSTEAD, TX 77445

BUI NGOCDUNG THI  
18723 FOX PRAIRIE  
HOUSTON, TX 77084

ZIENTEK LARRY  
37395 FM 1488 ROAD  
HEMPSTEAD, TX 77445

BONACASSIO PROPERTY LLC  
28565 MELLMAN ROAD  
HEMPSTEAD, TX 77445

CC WALLER 1488 LP  
9955 BARKER CYPRESS #250  
CYPRESS, TX 77433

**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](mailto:WQ-ARPTeam@tceq.texas.gov) or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Sagebrush 1 LLC

Permit No. WQ00 New Permit

EPA ID No. TX New Permit

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

The proposed wastewater treatment plant is located approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098 in Waller County, TX.

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: Waller
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 WWTP to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; then to Brazos River Below Navasota River; then to Brazos River Tidal.

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 4.0 acres of clearing. Construction of a steel package 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. Construction of the wastewater treatment plant is proposed to be complete in April 2027.

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

The proposed WWTP will be located on a 470-acre piece of property. The property currently is mostly grassland with some shrubs and trees. Maple Development Group 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 – 0.105 MGD (Steel Packaged Plant)

Treatment Unit	No. of Units	Dimensions (L x W x D)
Aeration Basin	1	60'-0" x 12'-0" x 10'-8"
Digester Basin	1	52'-0" x 12'-0" x 10'-8"
Final Clarifier	1	24'-0" DIA x 15'-0" SWD
Chlorine Contact Basin	1	10'-0" x 12'-0" x 9'-6"

### Interim Phase – 0.21 MGD (Concrete Bullseye Plant)

Treatment Unit	No. of Units	Dimensions (L x W x D)
Aeration Basin	1	75'-0" x 14'-0" x 16'-0"
Digester Basin	2	26'-0" x 14'-0" x 16'-0"
Final Clarifier	1	32'-0" DIA x 15'-0" SWD
Chlorine Contact Basin	1	16'-0" x 14'-0" x 15'-0"

### Final Phase – 0.90 MGD (Concrete Bullseye Plants)

Treatment Unit	No. of Units	Dimensions (L x W x D)
Aeration Basin	1	75'-0" x 14'-0" x 16'-0"
	3	80'-0" x 14'-0" x 16'-0"
Digester Basin	8	26'-0" x 14'-0" x 16'-0"
Final Clarifier	4	32'-0" DIA x 15'-0" SWD
Chlorine Contact Basin	4	16'-0" x 14'-0" x 15'-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 WC MUD No. 64 WWTP

Influent Design Flow: Phase 1 - 0.105 MGD  
Phase 2 - 0.21 MGD  
Phase 3- 0.90 MGD

Influent BOD Concentration: 300 mg/L

	cu. ft.	gal
Aerobic Digester Volume: Phase 1:	6,658	49,802
Phase 2:	11,648	87,127
Phase 3:	46,592	348,508

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

Table 1 - Sludge Production (Phase 1)

<b>Solids Generated</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds Influent BOD5	263	197	131	66
Pounds of digested dry sludge produced*	92	69	46	23
Pounds of wet sludge produced	4,600	3,450	2,300	1,150
Gallons of wet sludge produced	548	411	274	137

Table 2 - Sludge Production (Phase 2)

<b>Solids Generated</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds Influent BOD5	526	394	263	131
Pounds of digested dry sludge produced*	184	138	92	46
Pounds of wet sludge produced	9,201	6,901	4,600	2,300
Gallons of wet sludge produced	1,097	822	548	274

Table 3 - Sludge Production (Phase 3)

<b>Solids Generated</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds Influent BOD5	2,253	1,690	1,127	563
Pounds of digested dry sludge produced*	789	591	394	197
Pounds of wet sludge produced	39,432	29,574	19,716	9,858
Gallons of wet sludge produced	4,700	3,525	2,350	1,175

\* 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

<b>Removal Schedule (Days)</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Days between Sludge Removal (Phase 1)	91	121	182	363
Days between Sludge Removal (Phase 2)	79	106	159	318
Days between Sludge Removal (Phase 3)	74	99	148	297

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 49,802 gal will be approximately 91 days at 100% capacity and annual average digested sludge production of 92 ppd. In phase 2, the calculated mean cell residence time (MCRT) for the digester storage volume of 87,127 gal will be approximately 79 days at 100% capacity and annual average digested sludge production of 184 ppd. In phase 3, the calculated mean cell residence time (MCRT) for the digester storage volume of 348,508 gal will be approximately 74 days at 100% capacity and annual average digested sludge production of 789 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:

PRairie View AYM UNIVERSITY  
c/o Cynthia CARTER-HORN  
PO Box 519, MS 1310  
PRairie View, TX 77446



9590 9402 9250 4295 2069 74

## 2. Article Number (Transfer from service label)

9489 0090 0027 6550 9027 39

stricted Delivery

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

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

☒ Agent☐ Addressee

## B. Received by (Printed Name)

Shantel Walker

## C. Date of Delivery

3/5/25

- D. Is delivery address different from item 1? ☐ Yes  
If 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

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:

Clear Creek Reserve LLC  
c/o Sherry Young P.E.  
Water Engineers  
17230 Huffmeister Rd.  
Cypress, TX 77429



9590 9402 9250 4295 2069 50

## 2. Article Number (Transfer from service label)

9489 0090 0027 6550 9027 53

ed Delivery

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

## COMP

A. S

X

## B. Received by (Printed Name)

J. M. M. M. M.

## C. Date of Delivery

3/5/25

- D. Is delivery address different from item 1? ☐ Yes  
If 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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>[Signature]</i></p>	
<p>1. Article Addressed to:</p> <p>BLUMER 209, LLC c/o EARL LEVI LOVE JR. P.E. L SQUARED ENGINEERING LLC 3307 W DAVIS ST. #100 CONROE, TX 77304</p>		<p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9489 0090 0027 6550 9027 60</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p>			
<p>9590 9402 9250 4295 2069 67</p>			
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>[Signature]</i></p>	
<p>1. Article Addressed to:</p> <p>MAYER ROAD WWTP LLC c/o JASON SCHULTZ P.E. DE CORP. 3100 WEST ALABAMA ST. HOUSTON, TX 77098</p>		<p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9489 0090 0027 6550 9027 46</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Insured Mail</p>			
<p>9590 9402 9250 4295 2069 81</p>			
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 39**

Prairie View A&M University  
c/o Cynthia Carter-Horn, Chief Financial Officer  
P.O. Box 519, MS 1310  
Prairie View, Texas 77446

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Cynthia Carter-Horn,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Prairie View A&M University Wastewater Treatment Facility (WQ0011275002) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP **can accept** the additional 0.90 MGD.

☐ **NO**, our WWTP **cannot accept** the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 46**

Mayer Road WWTP LLC  
c/o Jason Schultz, P.E.,  
DE Corp.  
3100 West Alabama Street  
Houston, Texas 77098

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Jason Shultz,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Maple Reserve Wastewater Treatment Facility (WQ0016413001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm





ENGINEERING THE FUTURE  
SINCE 1936

TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**

**Article No. 9489 0090 0027 6550 9027 46**

Mayer Road WWTP LLC  
c/o Jason Schultz, P.E.,  
DE Corp.  
3100 West Alabama Street  
Houston, Texas 77098

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Jason Schultz,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Maple Reserve Wastewater Treatment Facility (WQ0016413001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.90 MGD.

JASON SCHULTZ

Name

3/5/2025

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](mailto: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  
Colton Cary, P.E. – Firm





TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 60**

Blumer 209, LLC  
c/o Mr. Earl Levi Love, Jr. P.E.  
L Squared Engineering LLC  
3307 W Davis Street, Suite 100  
Conroe, Texas 77304

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Mr. Earl Levi Love, Jr.,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Hempstead 209 Wastewater Treatment Facility (WQ0016563001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 6, 2025

TNHC Texas, LLC.  
Mr. Dan Whitton  
15231 Laguna Canyon Road, Suite 250  
Irvine, CA 92618

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Mr. Dan Whitton,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Waller County MUD 40 Wastewater Treatment Plant (WQ0016645001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 53**

Clear Creek Reserve, LLC  
c/o Shelley Young, P.E.,  
Water Engineers, Inc.  
17230 Huffmeister Road  
Cypress, TX 77429

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Shelley Young,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Clear Creek Reserve Wastewater Treatment Plant (WQ0016680001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



ENGINEERING THE FUTURE  
SINCE 1936

TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**

**Article No. 9489 0090 0027 6550 9027 46**

Mayer Road WWTP LLC  
c/o Jason Schultz, P.E.,  
DE Corp.  
3100 West Alabama Street  
Houston, Texas 77098

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Jason Schultz,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Maple Reserve Wastewater Treatment Facility (WQ0016413001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.90 MGD.

JASON SCHULTZ  
Name

3/5/2025  
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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**

**Article No. 9489 0090 0027 6550 9027 53**

Clear Creek Reserve, LLC  
c/o Shelley Young, P.E.,  
Water Engineers, Inc.  
17230 Huffmeister Road  
Cypress, TX 77429

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Shelley Young,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Clear Creek Reserve Wastewater Treatment Plant (WQ0016680001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.90 MGD.

Shelley Young  
Name

3-6-25  
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

Susy Vallejo, E.I.T.  
Engineer III

Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm  
Colton Cary, P.E. – Firm

## **Attachment 8 – Design Calculations**

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

**ENGINEERING DESIGN SUMMARY  
FOR  
WALLER COUNTY MUD NO. 64  
PERMANENT WASTEWATER TREATMENT PLANT PHASE 1 - 0.105 MGD**

**PURPOSE**

The purpose of this report is to present the basis for design and summary of unit sizing and hydraulic calculations for the 0.105 mgd Wastewater Treatment Plant. This phase will provide capacity to accommodate 350 connections at 300 GPD/ESFC

**INFLUENT QUALITY CHARACTERISTICS**

The influent wastewater quality characteristics used for design are estimates based on State Design criteria and are as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>FOR PHASE I</u>
BOD <sub>5</sub>	300 mg/L
TSS	250 mg/L
NH <sub>3</sub> -N	60 mg/l

**INFLUENT FLOW CHARACTERISTICS**

The plant processes and hydraulic design are based on the following flows:

**Phase I**

Average Daily Flow (Q <sub>avg</sub> )	105,000 gpd	73 gpm
Peak 2-hour Flow (Q <sub>pk</sub> )	420,000 gpd	292 gpm

**PROCESS DESIGN**

The sewage treatment plant has been designed to produce an effluent in compliance with permitted parameters of:

CBOD <sub>5</sub>	10 mg/L
TSS	15 mg/L
NH <sub>3</sub> -N	3 mg/L
DO	4 mg/L
Chlorine Residual	1 mg/L after 20 minutes contact time

**ORGANIC LOADING**

**Influent Conditions**

**Phase I**

1 Average Daily Flow (Q <sub>avg</sub> )	105,000 gpd 73 gpm 0.16 cfs
2 Peak 2-hour Flow (Q <sub>pk</sub> )	420,000 gpd 292 gpm 0.65 cfs

**Influent (30-Day Average)**

1 BOD <sub>5</sub> (mg/L)	300 Influent concentration of wastewater strength
2 TSS (mg/L)	250
3 BOD <sub>5</sub> (lbs/day)	263 Organic Load

**Process Loadings**

1 MLSS (mg/L)	3,000
2 RASS (mg/L)	7,500
3 VSS/TSS	0.75

### Aeration

1 TCEQ maximum organic loading	35 lbs/day/1,000 cf
2 TCEQ required volume	7,514
3 Side Water Depth	10.67 ft
4 Width	12 ft
5 Length	60 ft
6 Number of tanks	1
7 Aeration volume available	7,682 cf
8 Organic Loading, (lbs/day/1,000 cf)	34.23
9 F/M, lb BOD <sub>5</sub> / lb MLVSS	0.24
10 Hydraulic retention time (hr)	13.13
11 Solids retention time (days)	27.31

### Digester

1 TCEQ minimum volume	20 cf/lb BOD <sub>5</sub>
2 TCEQ minimum detention time	40 days
3 Digester solids	30,000 mg/L
4 Volatile solids Reduction	44% Metcalf and Eddy (4th Edition)
5 MLVSS/MLSS ratio	0.75
6 Total daily solids generation	236 lb/d
7 Total solids after digestion	158 lb/d
8 TCEQ required volume (Loading)	4,718 cf
9 TCEQ required volume (Detention time)	3,378 cf
10 Side water depth	10.67 ft
11 Width	12 ft
12 Length	52.0 ft
13 Number of tanks	1
14 Digester volume available	6,658 cf
15 Digester loading,	28 cf/lb BOD <sub>5</sub>
16 Digester sludge retention time	78.84 days

### Clarifier

#### Phase I

1 TCEQ max. surface loading	1,200 gpd/sf	
2 TCEQ required surface area	350 sf	
3 Diameter	24 ft	
4 Side water depth	15.0 ft	
5 Number of units	1	
6 Area	452 sf	
7 Surface loading @ Q <sub>avg</sub>	232 gpd/sf	
8 Surface loading @ Q <sub>pk</sub>	928 gpd/sf	
9 TCEQ min. detention time @ Q <sub>avg</sub>	6 hours	
10 TCEQ min. detention time @ Q <sub>pk</sub>	1.8 hours	
11 Detention time @ Q <sub>avg</sub>	11.6 hours	
12 Detention time @ Q <sub>pk</sub>	2.90 hours	
13 TCEQ maximum weir loading	20,000 gpd/ft	
14 Weir length	75 ft	
15 Weir loading at Q <sub>pk</sub>	5,570 gpd/ft	
16 Min RAS Flow	63 gpm	200 gpd/sf of clarifier
17 Max RAS Flow	126 gpm	400 gpd/sf of clarifier
18 WAS Flow	4,205 gpd	
19 Required Torque for Drive Unit	2,160 lbs-ft	Assumes avg sludge loading of 15lbs/ft on
" " "	0.31 HP	



### Chlorine Contact Chamber

1 TCEQ min. detention time	20 minutes
2 Volume required @ $Q_{pk}$	781 cf
3 Side water depth	9.5 ft
4 Width	12 ft
5 Length	10 ft
6 Number of tanks	1
7 Volume provided	1,140 cf
8 Detention time at $Q_{pk}$	29.20 minutes

### Air Requirements

	2.2lbs O <sub>2</sub> /lb BOD <sub>5</sub> or formula (1.2(BOD)+4.3(NH <sub>3</sub> -N))/BOD, whichever 2.2 is greater
1 TCEQ minimum aeration air requirements	20 SCFM / 1,000 cf of digester volume Based on Air Diffuser Submergence
2 TCEQ minimum digester air requirements	1.82 (Table F.5 217.155(b)(2)(D))
3 Airflow Rate Correction Factor	0.07 (C=0.0075 OR F=0.02)*Diffuser Submergen
4 CWOTE	0.07 (C=0.0075 OR F=0.02)*Diffuser Submergen
5 Diffuser Type	Coarse or Fine
6 SCFM/day/lb BOD <sub>5</sub>	899 SCFM      Aeration Basin
7 SCFM / 1,000 cf	133 SCFM      Digester
8 CC mixing, 2.5 scfm/lf	25 SCFM      Chlorine Contact Basin
9 Air lifts	80 SCFM
10 Total Air required (design)	1,137 SCFM
11 Total Air required (max)	1,706 SCFM      Total Air Required (design)*1.5

### Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	10 in
Air Bridge Size	6 in
Equivalent Circular Air Pipe	7.55 in
Length of Air Bridge	52 ft
Air Diffuser Submergence	9.67 ft
Static Head on Air Diffusers	4.19 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.02 psi
Air Bridge Friction Losses	0.06 psi
Air Drop Losses (1" air drops)	0.11 psi
5% Factor of Safety	0.24 psi
Total Differential Pressure Loss	5.12
Approximate Blower Power Required	33.0 HP

Therefore ----- 3 blowers @600 SCFM with one as a standby

**ENGINEERING DESIGN SUMMARY  
FOR  
WALLER COUNTY MUD NO 64  
WASTEWATER TREATMENT PLANT - 0.21 MGD - PHASE II**

**PURPOSE**

The purpose of this report is to present the basis of design and summary of unit sizing and hydraulic calculations for the 0.21 MGD Wastewater Treatment Plant. Phase II will accommodate 700 ESFC at 300 GPD/ESFC and will replace the Phase I 0.105 MGD steel package plant.

**INFLUENT QUALITY CHARACTERISTICS**

The influent wastewater quality characteristics used for design are estimates based on State Design criteria and are as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>FOR PHASE I</u>
BOD <sub>5</sub>	300 mg/L
TSS	250 mg/L
NH <sub>3</sub> -N	45 mg/l

**INFLUENT FLOW CHARACTERISTICS**

The plant processes and hydraulic design are based on the following flows:

**Phase II**

Average Daily Flow (Q <sub>avg</sub> )	210,000 gpd	146 gpm
Peak 2-hour Flow (Q <sub>pk</sub> )	840,000 gpd	583 gpm

**PROCESS DESIGN**

The sewage treatment plant has been designed to produce an effluent in compliance with permitted parameters of:

CBOD <sub>5</sub>	7 mg/L	
TSS	15 mg/L	
NH <sub>3</sub> -N	2 mg/L	
DO	4 mg/L	
Chlorine Residual	1 mg/L	after 20 minutes contact time

**ORGANIC LOADING**

**Influent Conditions**

**Phase II**

1 Average Daily Flow (Q <sub>avg</sub> )	210,000 gpd 146 gpm 0.33 cfs
2 Peak 2-hour Flow (Q <sub>pk</sub> )	840,000 gpd 583 gpm 1.30 cfs

**Influent (30-Day Average)**

1 BOD <sub>5</sub> (mg/L)	300 Influent concentration of wastewater strength
2 TSS (mg/L)	250
3 BOD <sub>5</sub> (lbs/day)	525 Organic Load

**Process Loadings**

1 MLSS (mg/L)	3,000
2 RASS (mg/L)	7,500
3 VSS/TSS	0.75

### Aeration

1 TCEQ maximum organic loading	35 lbs/day/1,000 cf
2 TCEQ required volume	15,000 cf
3 Side Water Depth	16.0 ft
4 Width	14.0 ft
5 Length	75 ft
6 Number of tanks	1
7 Aeration volume available	16,800 cf
8 Organic Loading, (lbs/day/1,000 cf)	31.25
9 F/M, lb BOD <sub>5</sub> / lb MLVSS	0.22
10 Hydraulic retention time (hr)	14.36
11 Solids retention time (days)	29.69
12 Total diameter of plant (ft)	63.00
13 Wall Thickness (ft)	1.50 ft
14 Surface area of outer ring (sf)	2,155.13
15 Volume of outer ring (cf)	34,482.12
16 Volume per degree (cf)	95.78
17 Degrees of Aeration basin	<b>178</b>
	<b>USE 180</b>

### Digester

1 TCEQ minimum volume	20 cf/lb BOD <sub>5</sub>
2 TCEQ minimum detention time	40 days
3 Digester solids	30,000 mg/L
4 Volatile solids Reduction	44% Metcalf and Eddy (4th Ed.)
5 MLVSS/MLSS ratio	0.75
6 Total daily solids generation	475 lb/d
7 Total solids after digestion	319 lb/d
8 TCEQ required volume (Loading)	9,508 cf
9 TCEQ required volume (Detention time)	6,808 cf
10 Side water depth	16.00 ft
11 Width	14.0 ft
12 Length	26 ft
13 Number of tanks	2
14 Digester volume available	11,648 cf
15 Digester loading,	25 cf/lb BOD <sub>5</sub>
16 Digester sludge retention time	68.44 days
17 Volume per degree (cf)	95.78
18 Degrees of Digester	<b>127</b>
	<b>USE 135</b>

### Clarifier

1 TCEQ max. surface loading	1,200 gpd/sf	
2 TCEQ required surface area	700 sf	
3 Diameter	32 ft	
4 Side water depth	15.00 ft	
5 Number of units	1	
6 Area	804 sf	
7 Surface loading @ Q <sub>avg</sub>	261 gpd/sf	
8 Surface loading @ Q <sub>pk</sub>	1,044 gpd/sf	
9 TCEQ min. detention time @ Q <sub>avg</sub>	6.15 hours	
10 TCEQ min. detention time @ Q <sub>pk</sub>	1.8 hours	
11 Detention time @ Q <sub>avg</sub>	10.3 hours	
12 Detention time @ Q <sub>pk</sub>	2.58 hours	
13 TCEQ maximum weir loading	20,000 gpd/ft	
14 Weir length	100.5 ft	
15 Weir loading at Q <sub>pk</sub>	8,356 gpd/ft	
16 Min RAS Flow	112 gpm	200 gpd/sf of clarifier
17 Max RAS Flow	223 gpm	400 gpd/sf of clarifier
18 WAS Flow	8,393 gpd	Assumes avg sludge loading of 15lbs/ft on rake arm
19 Required Torque for Drive Unit	3,840 lbs-ft	Assumes avg sludge loading of 15lbs/ft on rake arm
19A Required Torque for Drive Unit	0.56 HP	

### Phase II



### Chlorine Contact Chamber

1 TCEQ min. detention time	20 minutes
2 Volume required @ $Q_{pk}$	1,559 cf
3 Side water depth	15 ft
4 Width	14 ft
5 Length	16 ft
6 Number of tanks	1
7 Volume provided	3,360 cf
8 Detention time at $Q_{pk}$	43.11 minutes
9 Volume per degree (cf)	95.78
9a Volume per degree (cf) (CCB SWD)	89.80
10 Degrees of Digester	40
	<b>USE</b>
	<b>45 deg</b>
<b>Actual Volume</b>	4,041 cf
<b>Actual Length</b>	20 ft
<b>Detention time at <math>Q_{pk}</math></b>	51.85 minutes

### Air Requirements

1 TCEQ minimum aeration air requirements	2.2 lbs O <sub>2</sub> /lb BOD <sub>5</sub>
2 TCEQ minimum digester air requirements	20 SCFM / 1,000 cf of digester volume
3 Airflow Rate Correction Factor	0.91 Based on Air Diffuser Submergence (Table F.5 217.155(b)(2)(D))
4 WOTE	0.11 (0.0075*SWD in Aeration Basin)
5 Diffuser Type	<b>c</b> (Coarse or Fine)
6 SCFM/day/lb BOD <sub>5</sub>	579 SCFM Aeration Basin
7 SCFM / 1,000 cf	233 SCFM Digester Aeration
8 CC mixing, 2.5 scfm/lf	40 SCFM
9 Air lifts, 10%	85 SCFM
10 Total Air required	937 SCFM
11 Total Air required (max)	1,405 SCFM

### Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	<b>10</b> in
Length of Blower Header	<b>30</b> ft
Air Bridge Size	<b>8x10</b> in
Equivalent Circular Air Pipe	9.76 in
Length of Air Bridge	<b>110</b> ft
Air Diffuser Submergence	15 ft
Static Head on Air Diffusers	6.49 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.00 psi
Air Bridge Friction Losses (6" x 8")	0.00 psi
Air Drop Losses (2" air drops)	0.05 psi
10% Factor of Safety	0.70 psi
Total Differential Pressure Loss	7.75
Approximate Blower Power Required	39.2 HP

**Therefore ----- 2 blowers @1,000 SCFM with one as a standby**

**ENGINEERING DESIGN SUMMARY  
FOR  
WALLER COUNTY MUD NO 64  
WASTEWATER TREATMENT PLANT - 0.69 MGD - PHASE III**

**PURPOSE**

The purpose of this report is to present the basis of design and summary of unit sizing and hydraulic calculations for three 0.23 MGD Wastewater Treatment Plants that will bring the total plant capacity to 0.90 MGD. The Phase III WWTPs will accommodate 766 ESFC at 300 GPD/ESFC each. In total, the four bullseye WWTPs will accommodate 3,000 ESFC at 300 GPD/ESFC.

**INFLUENT QUALITY CHARACTERISTICS**

The influent wastewater quality characteristics used for design are estimates based on State Design criteria and are as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>FOR PHASE I</u>
BOD <sub>5</sub>	300 mg/L
TSS	250 mg/L
NH <sub>3</sub> -N	45 mg/l

**INFLUENT FLOW CHARACTERISTICS**

The plant processes and hydraulic design are based on the following flows:

**Phase II**

Average Daily Flow (Q <sub>avg</sub> )	230,000 gpd	160 gpm
Peak 2-hour Flow (Q <sub>pk</sub> )	920,000 gpd	639 gpm

**PROCESS DESIGN**

The sewage treatment plant has been designed to produce an effluent in compliance with permitted parameters of:

CBOD <sub>5</sub>	7 mg/L	
TSS	15 mg/L	
NH <sub>3</sub> -N	2 mg/L	
DO	4 mg/L	
Chlorine Residual	1 mg/L	after 20 minutes contact time

**ORGANIC LOADING**

**Influent Conditions**

**Phase III**

1 Average Daily Flow (Q <sub>avg</sub> )	230,000 gpd 160 gpm 0.36 cfs
2 Peak 2-hour Flow (Q <sub>pk</sub> )	920,000 gpd 639 gpm 1.42 cfs

**Influent (30-Day Average)**

1 BOD <sub>5</sub> (mg/L)	300 Influent concentration of wastewater strength
2 TSS (mg/L)	250
3 BOD <sub>5</sub> (lbs/day)	575 Organic Load

**Process Loadings**

1 MLSS (mg/L)	3,000
2 RASS (mg/L)	7,500
3 VSS/TSS	0.75

### Aeration

1 TCEQ maximum organic loading	35 lbs/day/1,000 cf
2 TCEQ required volume	16,429 cf
3 Side Water Depth	16.0 ft
4 Width	14.0 ft
5 Length	80 ft
6 Number of tanks	1
7 Aeration volume available	17,920 cf
8 Organic Loading, (lbs/day/1,000 cf)	32.09
9 F/M, lb BOD <sub>5</sub> / lb MLVSS	0.23
10 Hydraulic retention time (hr)	13.99
11 Solids retention time (days)	28.92
12 Total diameter of plant (ft)	63.00
13 Wall Thickness (ft)	1.50 ft
14 Surface area of outer ring (sf)	2,155.13
15 Volume of outer ring (cf)	34,482.12
16 Volume per degree (cf)	95.78
17 Degrees of Aeration basin	<b>190</b>
	<b>USE 190</b>

### Digester

1 TCEQ minimum volume	20 cf/lb BOD <sub>5</sub>
2 TCEQ minimum detention time	40 days
3 Digester solids	30,000 mg/L
4 Volatile solids Reduction	44% Metcalf and Eddy (4th Ed.)
5 MLVSS/MLSS ratio	0.75
6 Total daily solids generation	521 lb/d
7 Total solids after digestion	349 lb/d
8 TCEQ required volume (Loading)	10,413 cf
9 TCEQ required volume (Detention time)	7,456 cf
10 Side water depth	16.00 ft
11 Width	14.0 ft
12 Length	26 ft
13 Number of tanks	2
14 Digester volume available	11,648 cf
15 Digester loading,	22 cf/lb BOD <sub>5</sub>
16 Digester sludge retention time	62.49 days
17 Volume per degree (cf)	95.78
18 Degrees of Digester	<b>127</b>
	<b>USE 130</b>

### Clarifier

1 TCEQ max. surface loading	1,200 gpd/sf	
2 TCEQ required surface area	767 sf	
3 Diameter	32 ft	
4 Side water depth	15.00 ft	
5 Number of units	1	
6 Area	804 sf	
7 Surface loading @ Q <sub>avg</sub>	286 gpd/sf	
8 Surface loading @ Q <sub>pk</sub>	1,144 gpd/sf	
9 TCEQ min. detention time @ Q <sub>avg</sub>	6.15 hours	
10 TCEQ min. detention time @ Q <sub>pk</sub>	1.8 hours	
11 Detention time @ Q <sub>avg</sub>	9.4 hours	
12 Detention time @ Q <sub>pk</sub>	2.35 hours	
13 TCEQ maximum weir loading	20,000 gpd/ft	
14 Weir length	100.5 ft	
15 Weir loading at Q <sub>pk</sub>	9,151 gpd/ft	
16 Min RAS Flow	112 gpm	200 gpd/sf of clarifier
17 Max RAS Flow	223 gpm	400 gpd/sf of clarifier
18 WAS Flow	9,193 gpd	Assumes avg sludge loading of 15lbs/ft on rake arm
19 Required Torque for Drive Unit	3,840 lbs-ft	Assumes avg sludge loading of 15lbs/ft on rake arm
19A Required Torque for Drive Unit	0.56 HP	

### Phase III

### Chlorine Contact Chamber

1 TCEQ min. detention time	20 minutes
2 Volume required @ $Q_{pk}$	1,709 cf
3 Side water depth	15 ft
4 Width	14 ft
5 Length	16 ft
6 Number of tanks	1
7 Volume provided	3,360 cf
8 Detention time at $Q_{pk}$	39.33 minutes
9 Volume per degree (cf)	95.78
9a Volume per degree (cf) (CCB SWD)	89.80
10 Degrees of Digester	40
	<b>USE 40 deg</b>
<b>Actual Volume</b>	3,592 cf
<b>Actual Length</b>	18 ft
<b>Detention time at <math>Q_{pk}</math></b>	42.05 minutes

### Air Requirements

1 TCEQ minimum aeration air requirements	2.2 lbs O <sub>2</sub> /lb BOD <sub>5</sub>
2 TCEQ minimum digester air requirements	20 SCFM / 1,000 cf of digester volume
3 Airflow Rate Correction Factor	0.91 Based on Air Diffuser Submergence (Table F.5 217.155(b)(2)(D))
4 WOTE	0.11 (0.0075*SWD in Aeration Basin)
5 Diffuser Type	<b>c</b> (Coarse or Fine)
6 SCFM/day/lb BOD <sub>5</sub>	634 SCFM Aeration Basin
7 SCFM / 1,000 cf	233 SCFM Digester Aeration
8 CC mixing, 2.5 scfm/lf	40 SCFM
9 Air lifts, 10%	91 SCFM
10 Total Air required	997 SCFM
11 Total Air required (max)	1,496 SCFM

### Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	<b>10</b> in
Length of Blower Header	<b>30</b> ft
Air Bridge Size	<b>8x10</b> in
Equivalent Circular Air Pipe	9.76 in
Length of Air Bridge	<b>110</b> ft
Air Diffuser Submergence	15 ft
Static Head on Air Diffusers	6.49 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.00 psi
Air Bridge Friction Losses (6" x 8")	0.00 psi
Air Drop Losses (2" air drops)	0.05 psi
10% Factor of Safety	0.70 psi
Total Differential Pressure Loss	7.75
Approximate Blower Power Required	41.7 HP

**Therefore ----- 2 blowers @1,000 SCFM with one as a standby per bullseye**



## **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 – 0.105 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. 3 - 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. A larger aeration basin will be constructed in Phase 2 that will replace the temporary steel aeration basin. 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

Three blowers will be installed with the Phase 1. 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)

### **Phase 2 – 0.21 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. 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 2 will have one aeration basin. Three additional aeration basins 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 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 2. 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 3 – 0.90 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. 4 - 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 3 will have four 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**

Phase 3 will have four 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 dual gaseous chlorination disinfection system will be installed, capable of automatically changing from one cylinder to another per *30 TAC 217.271(b)*.

## D. EQUIPMENT DUPLICITY

### 1. BLOWERS

Five blowers will be installed with the Phase 3. 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.

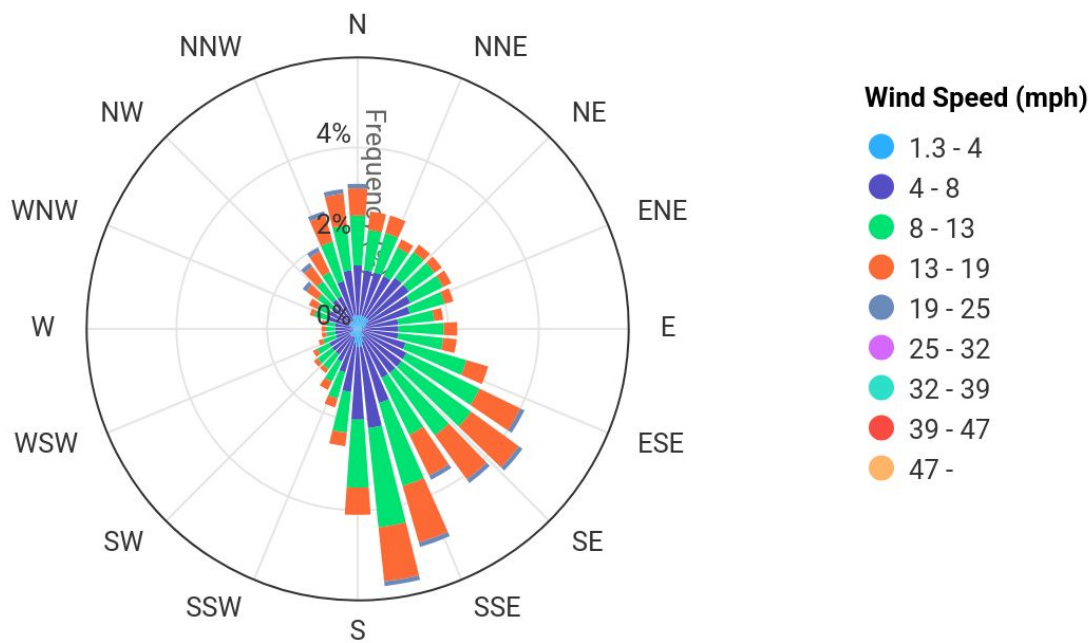
## **Attachment 9 – Wind Rose**

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



# HOUSTON INTERCONTINENTAL AP (TX) Wind Rose

June 01, 1969 - January 22, 2025  
Sub-Interval: January 1 - December 31, 0 - 24



Click and drag to zoom

## Leah Whallon

---

**From:** Susy Vallejo, E.I.T. <svallejo@ehra.team>  
**Sent:** Thursday, April 17, 2025 3:06 PM  
**To:** Michelle Labrie; Leah Whallon; Krystal Regner, P.E., ENV SP  
**Subject:** RE: NORI for Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP  
**Attachments:** WC 64 - TCEQ Administrative Report.pdf; WC 64 - TCEQ Technical Report 2.0.pdf; Attachment 5 - SPIF.pdf; WC 64 - Sagebrush Land Plan.pdf; WC 64 - TPDES Discharge Exhibit.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good afternoon, Leah,

No worries, we can change the discharge route description to say “detention pond”. I have revised and attached the necessary documents. Please let me know if you need any additional information.

Thank you,

### Susy Vallejo, E.I.T.

Engineer III

10011 Meadowglen Lane  
Katy, Texas 77042  
Direct: 281.751.9961



TBPE No. F-726 | TBPLS No. 10092300

---

**From:** Michelle Labrie <Michelle.Labrie@tceq.texas.gov>  
**Sent:** Wednesday, April 16, 2025 2:09 PM  
**To:** Susy Vallejo, E.I.T. <svallejo@ehra.team>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>; Krystal Regner, P.E., ENV SP <kregner@ehra.team>  
**Subject:** RE: NORI for Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

Thank you Susy and Leah,

Susy would you mind tweaking the discharge route description to say “detention pond” instead of “detention lake”? This just help us keep consistent with our other permits. If there is a specific reason you would like to keep the lake wording please let me know. Secondly, please remove the “Brazos River Tidal” as we consider the classified segment to be Brazos River Below Navasota River in this case.

Lastly, could you please provide some additional information about the detention pond. The surface area of the pond, the estimated depth, and a depiction of the detention pond on a map would be helpful.

Thank you for your help and please let me know if you have any questions!



Michelle S. Labrie

TCEQ Water Quality Division

[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)

Phone: 512.239.4535

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**From:** Susy Vallejo, E.I.T. <[svallejo@ehra.team](mailto:svallejo@ehra.team)>

**Sent:** Monday, April 14, 2025 6:01 PM

**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>; Krystal Regner, P.E., ENV SP <[kregner@ehra.team](mailto:kregner@ehra.team)>

**Cc:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>

**Subject:** RE: NORI for Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

**Importance:** High

Leah,

Thank you for informing me of that. I will hold on publishing the NORI. The revised application uploaded last week has the updated Technical Report Worksheet 2.0, which includes the detention pond. I have included the previously attached email for Michelle's reference. I have also attached Administrative Report 1.0 and SPIF. All other attachments and exhibits should remain the same. Please let me know if you need any additional information from us in order to proceed with advertisement of NORI.

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:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>

**Sent:** Monday, April 14, 2025 5:29 PM

**To:** Susy Vallejo, E.I.T. <[svallejo@ehra.team](mailto:svallejo@ehra.team)>; Krystal Regner, P.E., ENV SP <[kregner@ehra.team](mailto:kregner@ehra.team)>

**Cc:** Michelle Labrie <[Michelle.Labrie@tceq.texas.gov](mailto:Michelle.Labrie@tceq.texas.gov)>

**Subject:** RE: NORI for Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

Hi Susy,

No changes can be made to the discharge route in the NORI without first providing a revised application to include the detention pond in the route description. I checked the most recent version and there is no mention of the detention pond.

Please send the revised application pages via email. I'm including Michelle Labrie on our standards implementation team to confirm the changes to the route description.

Please hold on publishing the NORI until I can reissue them.

Thanks,



**Leah Whallon**

Texas Commission on Environmental Quality  
Water Quality Division  
512-239-0084  
[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at  
[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

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**From:** Susy Vallejo, E.I.T. <[svallejo@ehra.team](mailto:svallejo@ehra.team)>

**Sent:** Monday, April 14, 2025 5:04 PM

**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>; Krystal Regner, P.E., ENV SP <[kregner@ehra.team](mailto:kregner@ehra.team)>

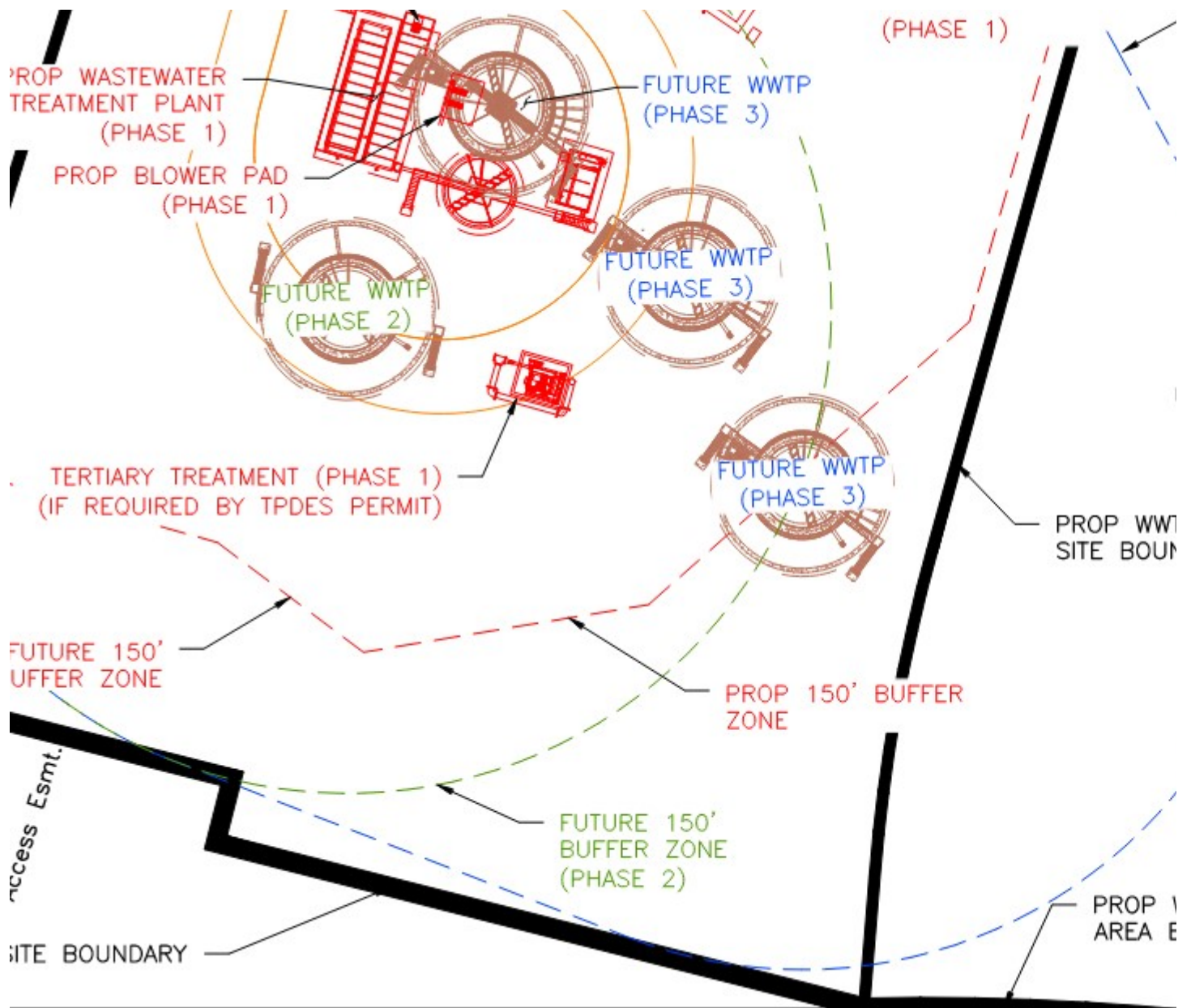
**Subject:** RE: NORI for Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

**Importance:** High

Good afternoon, Leah,

Could we update the discharge route as marked on each of the PDFs? Please see snip below of site layout. Discharge from site will go discharge into small detention pond before discharging into unnamed tributary.





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:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>

**Sent:** Monday, April 14, 2025 3:27 PM

**To:** Krystal Regner, P.E., ENV SP <[kregner@ehra.team](mailto:kregner@ehra.team)>

**Cc:** Susy Vallejo, E.I.T. <[svallejo@ehra.team](mailto:svallejo@ehra.team)>

**Subject:** NORI for Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

Good Afternoon,

Permit No. WQ0016761001

Applicants are required to publish the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI) within 30 days of the application being declared administratively complete.

Attached are:

- Letter of Declaration of Administrative Completeness
- Notice of Receipt of Application and Intent to Obtain a Water Quality Permit
- Notice of Receipt of Application and Intent to Obtain a Water Quality Permit in Spanish Language
- Instructions of Public Notice
- Public Notice Verification Form
- Affidavit of Publication

**IMPORTANT:** You must enter the Applicant Name and Permit Number into the sections provided in the upper right portion of the Affidavit of Publication. The CID or CCO Number section does not need to be entered and is intended for internal use only.

Please let me know if you have any questions.

Thank you,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at [www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Waller County Municipal Utility District No. 64

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

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

	Y	N		Y	N
Administrative Report 1.0	<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 checked="" 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: 059430  
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?

Sagebrush 1 LLC

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

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

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

CN: Pending

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

Prefix: MR.

Last Name, First Name: Kaplan, Itiel

Title: Manager

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

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

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, Texas 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, Texas 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, Texas 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, Texas 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: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

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

Prefix: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

### A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Regner, Krystal  
Title: Project Engineer Credential: P.E.  
Organization Name: EHRA Engineering  
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 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 Engineer

Credential: P.E.

Organization Name: EHRA Engineering

Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 77042

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: John B. Coleman Library

Location within the building: Front Desk

Physical Address of Building: 130 L.W. Minor Street

City: Prairie View

County: Waller County

Contact (Last Name, First Name): Click to enter text.

Phone No.: 936.261.1519 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 Pending

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):

Waller County MUD No. 64 Wastewater Treatment Plant

C. Owner of treatment facility: Sagebrush 1 LLC

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

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

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

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

Organization Name: Sagebrush 1 LLC

Mailing Address: 1333 West Loop South, Suite 910 City, State, Zip Code: Houston, TX 77027

Phone No.: 832.804.9680 E-mail Address: Itiel@mapledevelopmentgroup.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:

Approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098 in Waller County, TX.

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 discharge from WWTP site to a detention pond; thence to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; thence to Brazos River Below Navasota River.

City nearest the outfall(s): Hempstead

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

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: NOT APPLICABLE

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

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

☐ Yes      ☐ No

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

[Click to enter text.](#)

- B. City nearest the disposal site: [Click to enter text.](#)

- C. County in which the disposal site is located: [Click to enter text.](#)

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

[Click to enter text.](#)

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

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

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

☐ Yes      ☒ No

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

☐ Yes      ☐ No      ☒ Not Applicable

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

[Click to enter text.](#)

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

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

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

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

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

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

## Section 13. Attachments (Instructions Page 33)

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

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

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

- Applicant's property boundary
- 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.](#)



# 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: 3 ft

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

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☒ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [Click to enter text.](#)

Average depth of the entire water body, in feet: [Click to enter text.](#)

Average depth of water body within a 500-foot radius of discharge point, in feet:  
[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.

N/A

### 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.

The effluent will discharge from WWTP site to a detention pond; thence to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; thence to Brazos River Below Navasota River.

### E. Normal dry weather characteristics

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

N/A – Proposed detention lake system is not yet constructed. It will be a wet bottom pond. The unnamed drainage ditch is narrow, with an average depth of 4 ft and minimal flow.

Date and time of observation: February 22, 2025 @ 11:15 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.

- |   |   |
|---|---|
| <input type="checkbox"/> Oil field activities | <input type="checkbox"/> Urban runoff                                   |
| <input type="checkbox"/> Upstream discharges  | <input checked="" type="checkbox"/> Agricultural runoff                 |
| <input type="checkbox"/> Septic tanks         | <input type="checkbox"/> Other(s), specify: <u>Click to enter text.</u> |

## B. Waterbody uses

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

- |  |  |
|--|--|
| <input checked="" 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 type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## 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



# 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](mailto:WQ-ARPTeam@tceq.texas.gov) or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Sagebrush 1 LLC

Permit No. WQ00 New Permit

EPA ID No. TX New Permit

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

The proposed wastewater treatment plant is located approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098 in Waller County, TX.

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.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: kregner@ehra.team

2. List the county in which the facility is located: Waller
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 WWTP site to a detention pond, thence to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; thence to Brazos River Below Navasota River.

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 4.0 acres of clearing. Construction of a steel package 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.

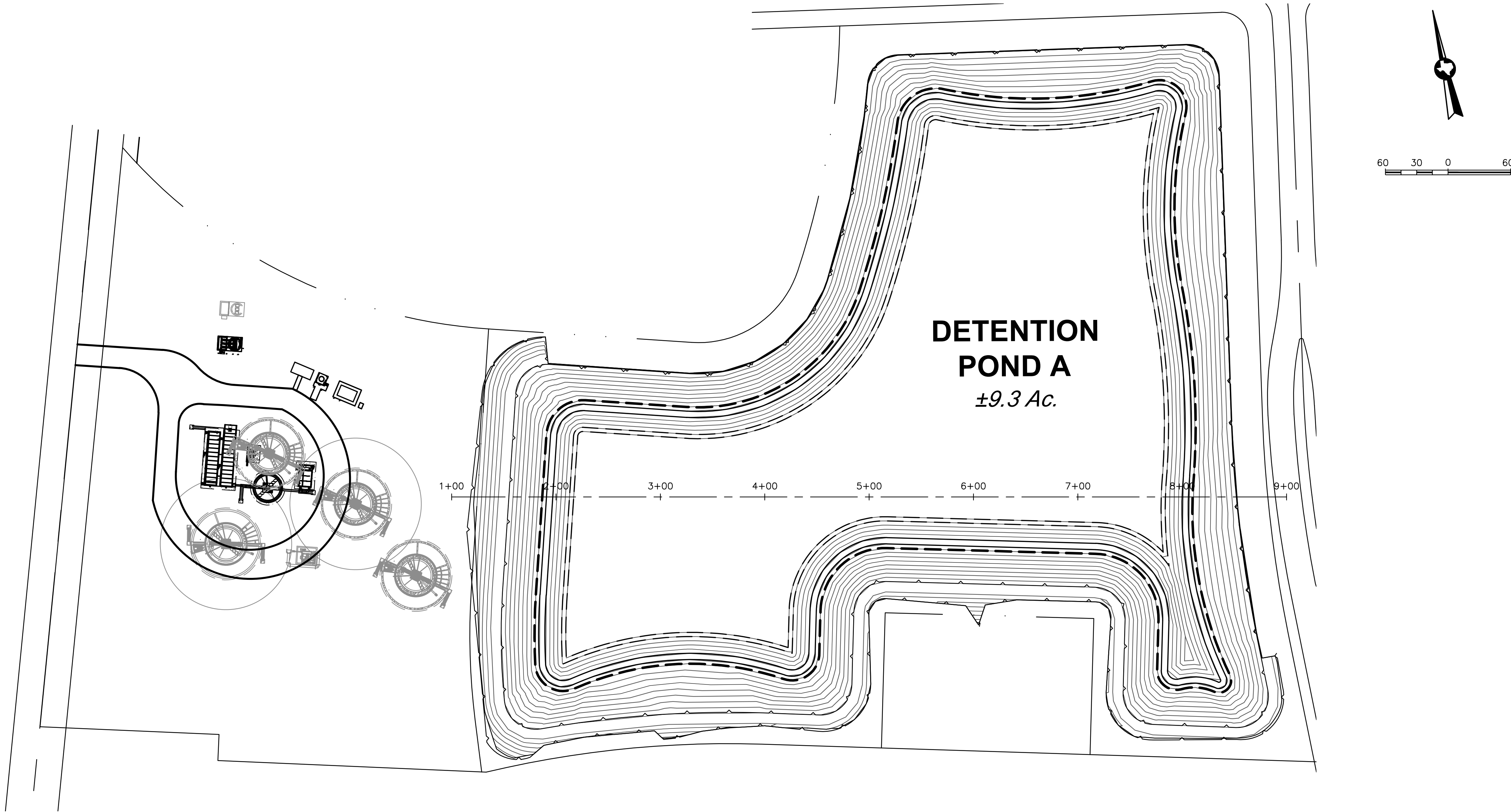
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

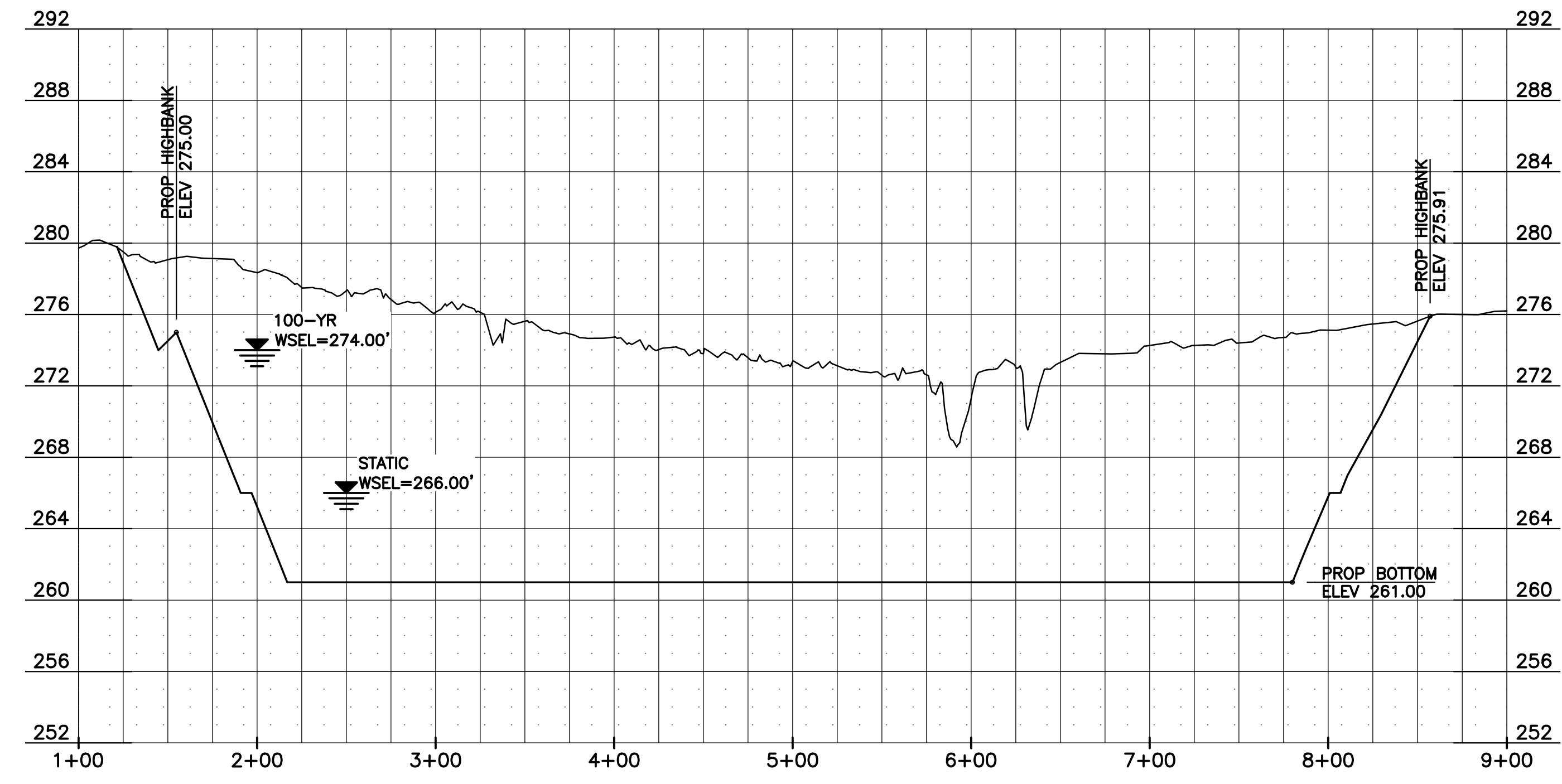
There are currently no buildings or structures on the property. Construction of the wastewater treatment plant is proposed to be complete in April 2027.

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

The proposed WWTP will be located on a 470-acre piece of property. The property currently is mostly grassland with some shrubs and trees. Maple Development Group is the proposed developer of the land.



**DETENTION  
POND A**  
*±9.3 Ac.*





**EHRA**  
ENGINEERING THE FUTURE  
SINCE 1896

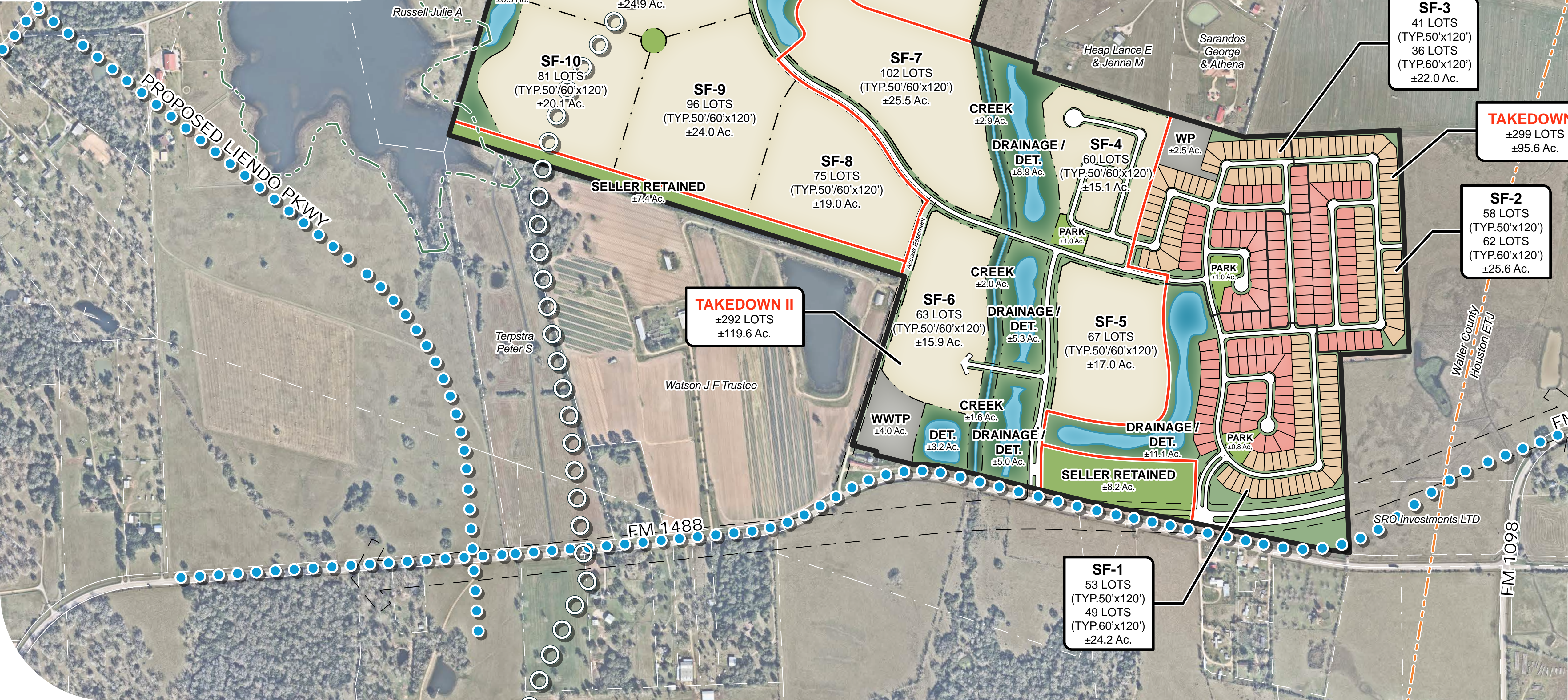
10011 Meadowglen Lane  
Houston, Texas 77042  
EHRAInc.com | 713.764.4500  
TBP# No. F-726 | TBP#S No. 10092300

SAGEBRUSH  
DETENTION POND A  
LAYOUT



LAND USE ANALYSIS

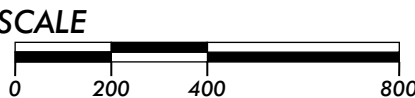
TAKEDOWN I		±299 LOTS	±69.0 Ac.
SF	TYP. 50'X120'	±152 LOTS 50.8%	±31.8 Ac.
SF	TYP. 60'X120'	±147 LOTS 49.2%	±37.2 Ac.
DEVELOPABLE		±979 LOTS	±247.0 Ac.
SF	TYP. 50'/'60'X120'	±979 LOTS 100%	±247.0 Ac.
NON-RESIDENTIAL			±15.6 Ac.
SELLER RETAINED			±15.6 Ac.
PARKS / RECREATION / OPEN SPACE			±104.4 Ac.
PARK	REC. CENTER & PARKS		±6.3 Ac.
	DRAINAGE / DETENTION		±81.6 Ac.
	CREEK		±6.5 Ac.
	LANDSCAPE / OPEN SPACE		±10.0 Ac.
EASEMENTS / UTILITIES			±12.3 Ac.
DS	DRILL SITE		±4.5 Ac.
WWTP	WASTEWATER TREATMENT PLANT		±4.0 Ac.
WP	WATER PLANT		±2.5 Ac.
	ACCESS EASEMENT		±1.3 Ac.
CONSTRAINTS			±22.4 Ac.
MAJOR THOROUGHFARES			±5.6 Ac.
COLLECTOR STREETS			±16.8 Ac.
PROJECT TOTAL			±470.7 Ac.



a schematic development plan for  
**SAGEBRUSH**  
± **470.7 ACRES OF LAND**  
prepared for  
**MAPLE DEVELOPMENT GROUP**



24285 Katy Freeway, Ste. 525  
Katy, Texas 77494  
Tel: 281-810-1422



HOU-45002  
SEPTEMBER 04, 2024

THIS DRAWING IS A GRAPHIC REPRESENTATION FOR PRESENTATION PURPOSES ONLY AND IS NOT FOR COMPUTATION OR CONSTRUCTION PURPOSES. SAID DRAWING IS A SCANNED IMAGE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE. META PLANNING + DESIGN MAY OR MAY NOT INTEGRATE ADDITIONAL INFORMATION PROVIDED BY OTHER CONSULTANTS, INCLUDING BUT NOT LIMITED TO THE TOPICS OF ENGINEERING AND DRAINAGE, FLOODPLAINS, AND/OR ENVIRONMENTAL ISSUES AS THEY RELATE TO THIS DRAWING. NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE PHYSICAL DESIGN, LOCATION, AND CHARACTER OF THE FACILITIES SHOWN ON THIS MAP ARE INTENDED. ADDITIONALLY, NO WARRANTY IS MADE TO THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

- VARIANCE REQUIRED FOR SECTION 1 REDUCED CENTERLINE RADIUS -



**TCEQ DOMESTIC WASTEWATER PERMIT APPLICATION  
FOR  
WALLER COUNTY MUD NO. 64  
WASTEWATER TREATMENT PLANT  
NEW PERMIT APPLICATION**



**MARCH 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 Waller County MUD No. 64**  
**Wastewater Treatment Plant**

**List of Exhibits**

- Exhibit 1 – USGS Howth Quad Map  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1A – USGS Waller NW Quad Map  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1B – USGS Hempstead Quad Map  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 17)
- Exhibit 1C – USGS Waller 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 5B – 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 7A – Justification for Permit Need

(Corresponds to Technical Report 1.1, Section 1.A, Page 19 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: Waller County Municipal Utility District No. 64

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

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

	Y	N		Y	N
Administrative Report 1.0	<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 checked="" 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: 059430  
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?

Sagebrush 1 LLC

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

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

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

CN: Pending

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

Prefix: MR.

Last Name, First Name: Kaplan, Itiel

Title: Manager

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

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

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, Texas 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, Texas 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, Texas 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, Texas 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: Click to enter text.  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Click to enter text.  
Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.  
Phone No.: Click to enter text. E-mail Address: Click to enter text.

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

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

Prefix: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

### A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Regner, Krystal  
Title: Project Engineer Credential: P.E.  
Organization Name: EHRA Engineering  
Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 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 Engineer

Credential: P.E.

Organization Name: EHRA Engineering

Mailing Address: 10011 Meadowglen Lane City, State, Zip Code: Houston, Texas 77042

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: John B. Coleman Library

Location within the building: Front Desk

Physical Address of Building: 130 L.W. Minor Street

City: Prairie View

County: Waller County

Contact (Last Name, First Name): Click to enter text.

Phone No.: 936.261.1519 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 Pending

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):

Waller County MUD No. 64 Wastewater Treatment Plant

C. Owner of treatment facility: Sagebrush 1 LLC

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

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

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

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

Organization Name: Sagebrush 1 LLC

Mailing Address: 1333 West Loop South, Suite 910 City, State, Zip Code: Houston, TX 77027

Phone No.: 832.804.9680 E-mail Address: Itiel@mapledevelopmentgroup.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:

Approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098 in Waller County, TX.

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 discharge from WWTP to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; then to Brazos River Below Navasota River; then to Brazos River Tidal.

City nearest the outfall(s): Hempstead

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

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: NOT APPLICABLE

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

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

☐ Yes      ☐ No

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

[Click to enter text.](#)

- B. City nearest the disposal site: [Click to enter text.](#)

- C. County in which the disposal site is located: [Click to enter text.](#)

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

[Click to enter text.](#)

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

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

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

☐ Yes      ☒ No

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

☐ Yes      ☐ No      ☒ Not Applicable

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

[Click to enter text.](#)

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

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

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

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

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

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

## Section 13. Attachments (Instructions Page 33)

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

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

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

- Applicant's property boundary
- 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: Sagebrush 1 LLC

Certification:

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

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

Signatory name (typed or printed): Itiel Kaplan

Signatory title: Manager

Signature:  Date: 2/3/2025  
(Use blue ink)

Subscribed and Sworn to before me by the said Itiel Kaplan  
on this 3<sup>rd</sup> day of February, 2025.  
My commission expires on the 18<sup>th</sup> day of October, 2025.

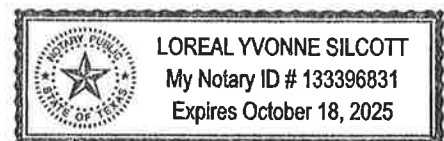


Notary Public

[SEAL]

Harris

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: Waller 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: 059430
2. Check or Money Order Amount: \$1,650.00
3. Date of Check or Money Order: 03/03/2025
4. Name on Check or Money Order: EHRA Engineering
5. APPLICATION INFORMATION

Name of Project or Site: Waller County MUD No. 64 Wastewater Treatment Plant

Physical Address of Project or Site: Waller 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

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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): 0.105

2-Hr Peak Flow (MGD): 0.420

Estimated construction start date: 04/2026

Estimated waste disposal start date: 05/2027

#### B. Interim II Phase

Design Flow (MGD): 0.21

2-Hr Peak Flow (MGD): 0.84

Estimated construction start date: 05/2028

Estimated waste disposal start date: 06/2029

#### C. Final Phase

Design Flow (MGD): 0.90

2-Hr Peak Flow (MGD): 3.60

Estimated construction start date: 05/2030

Estimated waste disposal start date: 06/2031

#### 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 the first phase 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 the ultimate phase, the treatment units will consist of a mechanical bar screen with splitter box and four (4) bullseye treatment trains. Each of the four bullseye treatment trains will consist of an aeration basin, two (2) aerobic digesters, one (1) final clarifier and one (1) chlorine contact basin.

## 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, and 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: 30.1255
- Longitude: -96.0013

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, and 6B

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

Waller County MUD No. 64 Wastewater Treatment Facility will serve a residential development with light commercial development within Waller County. The residential development will ultimately serve 3,000 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
Waller County MUD No. 64 Collection System	Sagebrush 1 LLC	Publicly Owned	3,000 esfc
		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 and restrictive easement.



### 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.

Click to enter text.

#### 3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

Click to enter text.

#### 4. Grease and decanted liquid disposal

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

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

Click to enter text.

### E. Stormwater management

#### 1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

#### 2. MSGP coverage

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

#### 3. Conditional exclusion

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

☐ Yes ☐ No

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

Click to enter text.

**4. Existing coverage in individual permit**

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

☐ Yes ☐ No

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

Click to enter text.

**5. Zero stormwater discharge**

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

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

[Click to enter text.](#)

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

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

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

[Click to enter text.](#)

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

##### 1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

## Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 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 <sub>5</sub> , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, $\mu$ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, 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 <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: CrestPoint

Facility Operator's License Classification and Level: Click to enter text.

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

## 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 ( $\geq 2$  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): Transport 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  $1 \times 10^{-7}$  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: Itiel Kaplan

Title: Manager

Signature: 

Date: 2-3-25

# 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.

Please see Attachment 7A

#### B. Regionalization of facilities

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

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

##### 1. *Municipally incorporated areas*

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of: [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

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<sup>1</sup> <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 BOD<sub>5</sub> Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): [Click to enter text.](#)

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

[Click to enter text.](#)



## B. Proposed organic loading

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

**Table 1.1(1) – Design Organic Loading**

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Municipality	0.90	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	0.90	
AVERAGE BOD <sub>5</sub> 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: 2

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: 2

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: 2

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: 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 and 8A

## 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. 48473C0050E

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 6](#)

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: 3 ft

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

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☒ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [Click to enter text.](#)

Average depth of the entire water body, in feet: [Click to enter text.](#)

Average depth of water body within a 500-foot radius of discharge point, in feet:  
[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.

N/A

### 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.

The effluent will discharge from WWTP site to a detention lake; thence to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; then to Brazos River Below Navasota River; then to Brazos River Tidal.

### E. Normal dry weather characteristics

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

N/A – Proposed detention lake system is not yet constructed. It will be a wet bottom pond. The unnamed drainage ditch is narrow, with an average depth of 4 ft and minimal flow.

Date and time of observation: February 22, 2025 @ 11:15 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.

- |   |  |
|---|--|
| <input type="checkbox"/> Oil field activities | <input type="checkbox"/> Urban runoff  |
| <input type="checkbox"/> Upstream discharges  | <input checked="" type="checkbox"/> Agricultural runoff                          |
| <input type="checkbox"/> Septic tanks         | <input type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## B. Waterbody uses

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

- |  |  |
|--|--|
| <input checked="" 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 type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## 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: February 22, 2025 Time of study: 11:15 AM

Stream name: Tributary stream of Ponds Creek which is a Tributary of Clear Creek

Location: LAT: 30° 7'31.23"N LONG : 96° 0'4.55"W

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: 2

Number of stream bends that are moderately defined: 5

Number of stream bends that are poorly defined: 3

Number of riffles: None

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 shows very minor to none flow fluctuations or channel obstruction/modification.

## 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.
Choose an item.	Downstream 1	9.1	3.0, 3.17
Choose an item.	Downstream 2	5.5	3.67, 3.0
Choose an item.	At Outfall	6.5	2.67, 2.33
Choose an item.	Upstream 1	6.3	4.0, 4.0
Choose an item.	Upstream 2	3.0	2.33, 2.33
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: [Click to enter text.](#)

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): .711

Length of stream evaluated, in feet: 10.33

Number of lateral transects made: 5

Average stream width, in feet: 6.08

Average stream depth, in feet: 3.05

Average stream velocity, in feet/second: 0.191 fps

Instantaneous stream flow, in cubic feet/second: 3.544

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Floating object timed over a fixed distance.

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

Maximum pool depth, in feet: .167

# 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 Howth Quad Map**

(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)

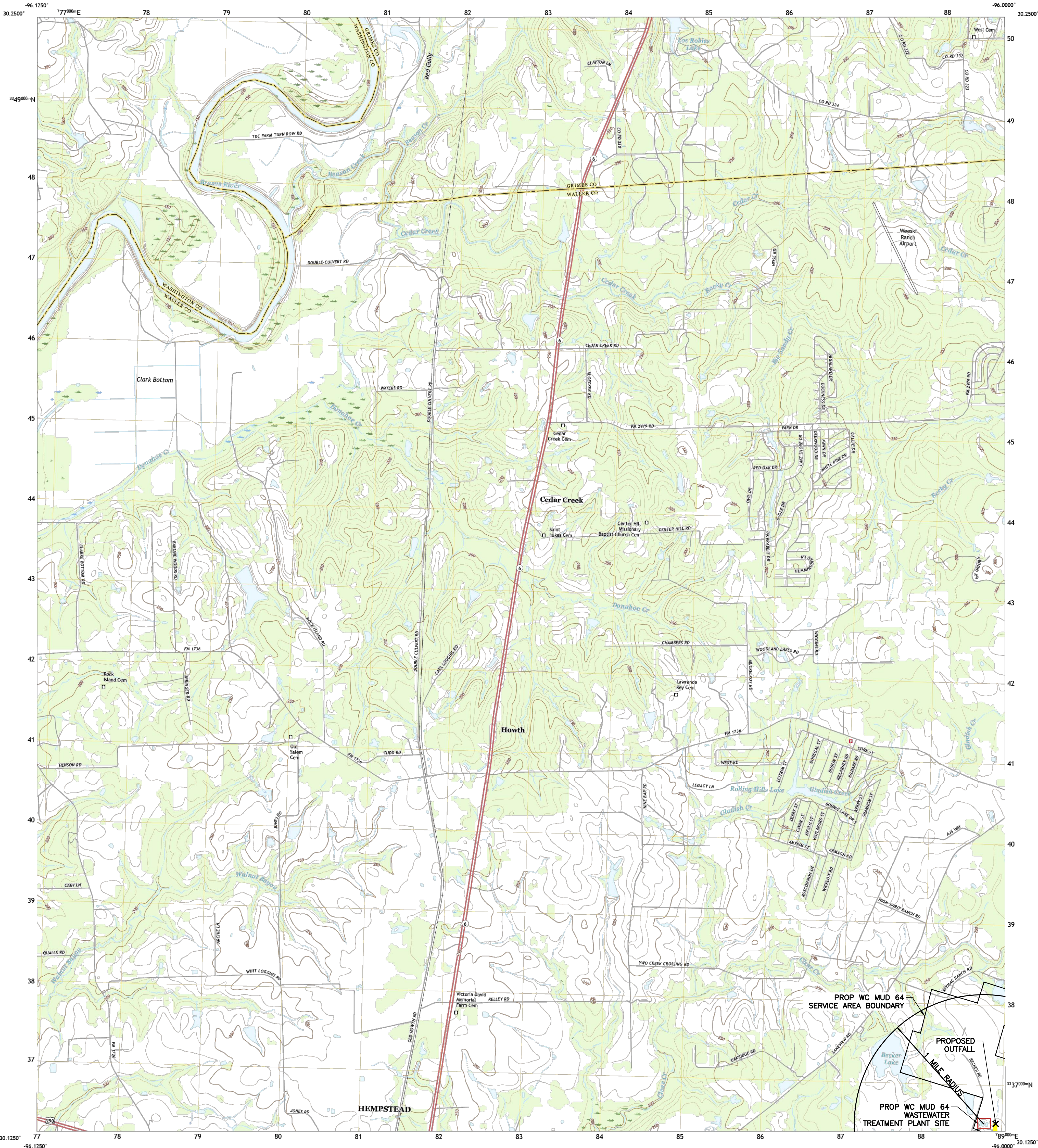




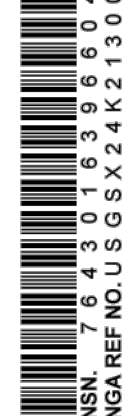
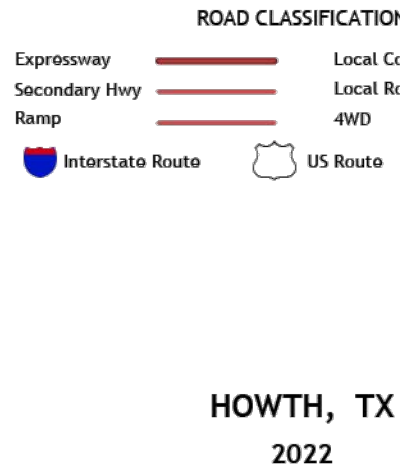
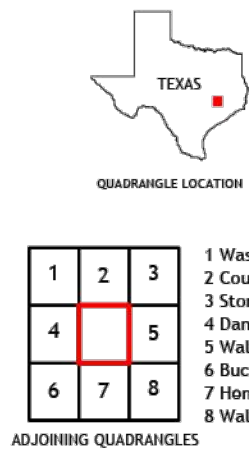
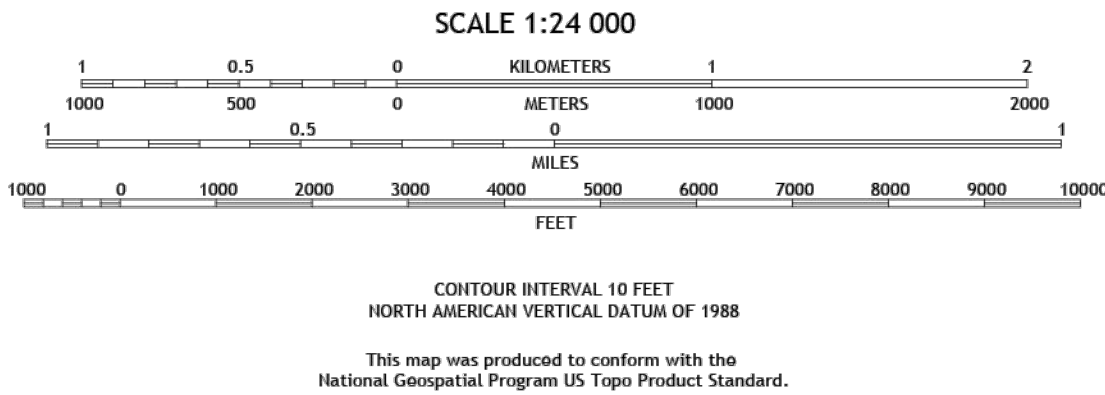
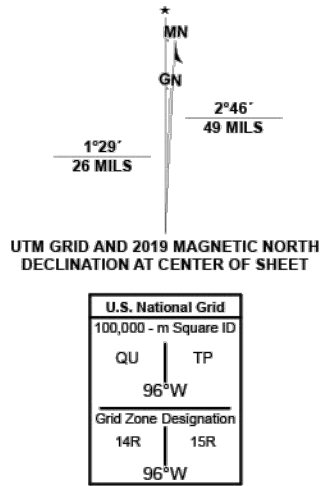
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U.S. GEOLOGICAL SURVEY



HOWTH QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 14R.  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.  
Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015 - 2019  
Names.....GNIS, 1979 - 2022  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2004  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



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

ENGINEERING THE FUTURE  
SINCE 1936  
WALLER COUNTY MUD NO 64 WWTP  
NEW TPDES PERMIT

EXHIBIT 1  
USGS HOWTH QUAD



**Exhibit 1A – USGS Waller NW Quad Map**  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)

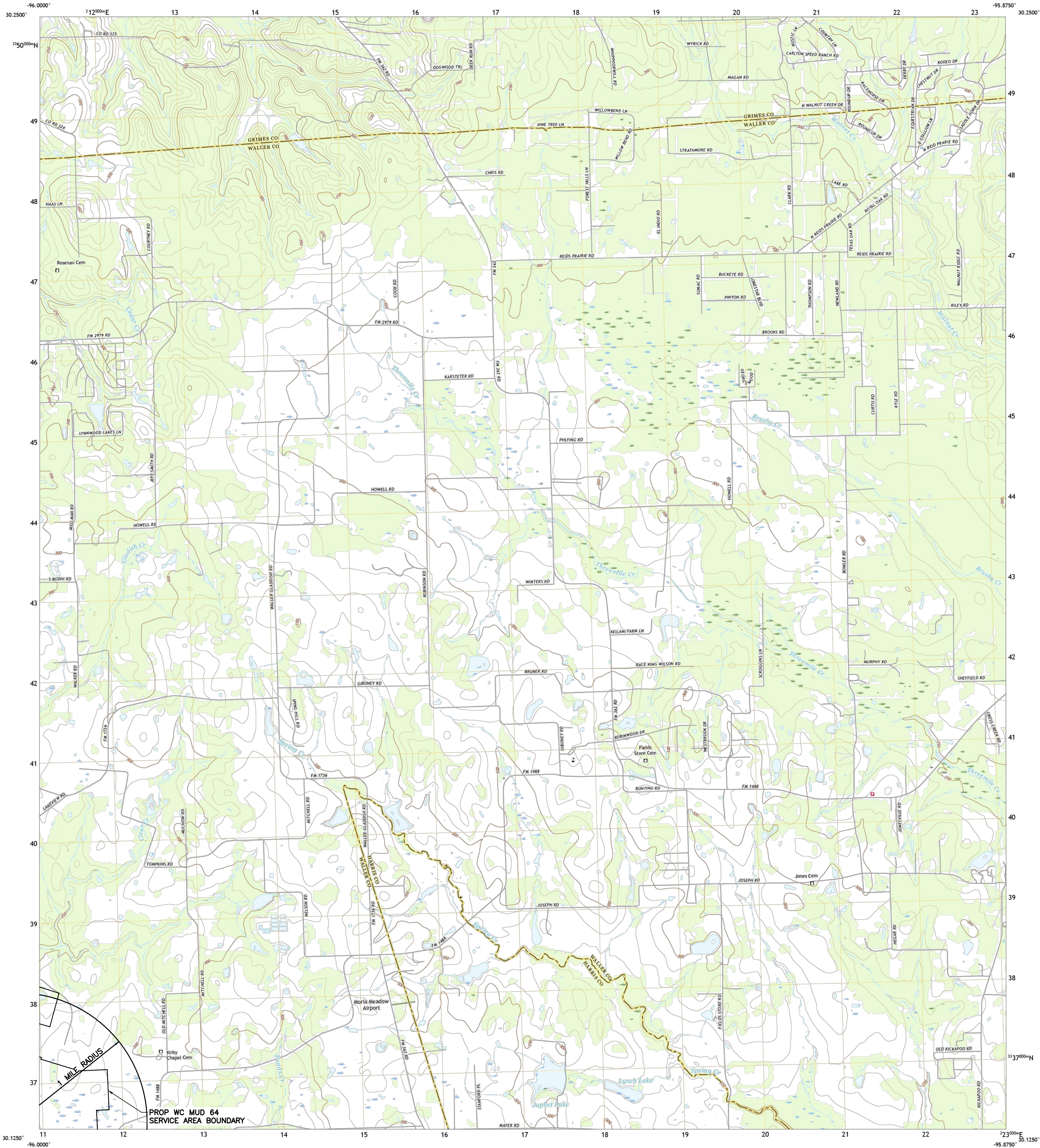




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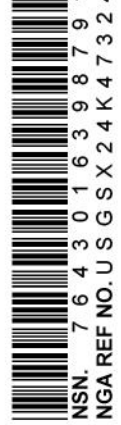
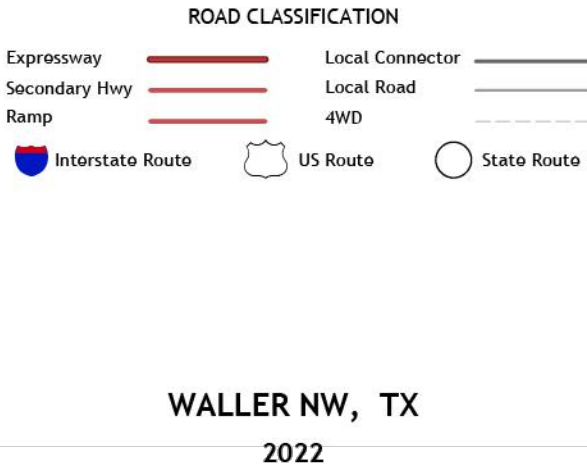
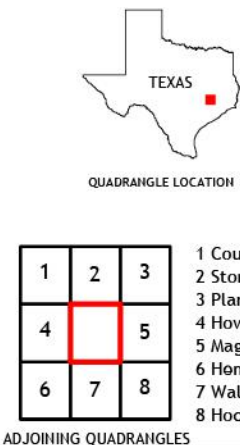
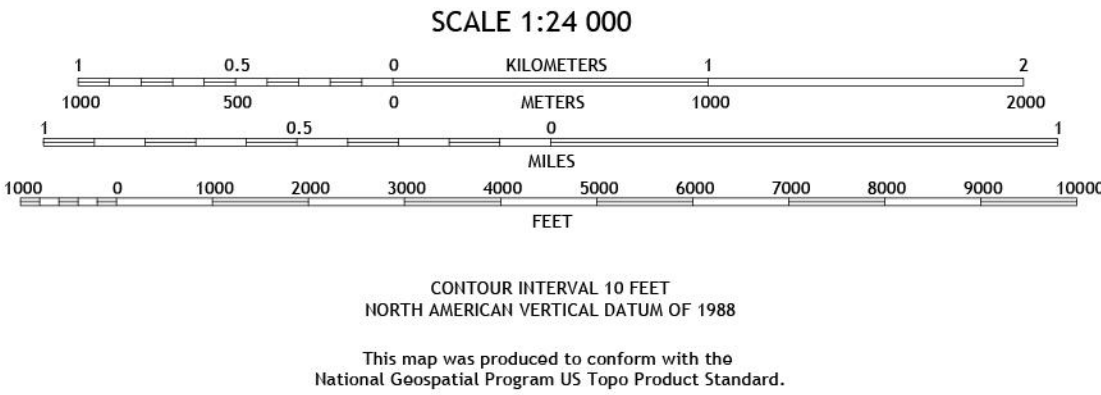
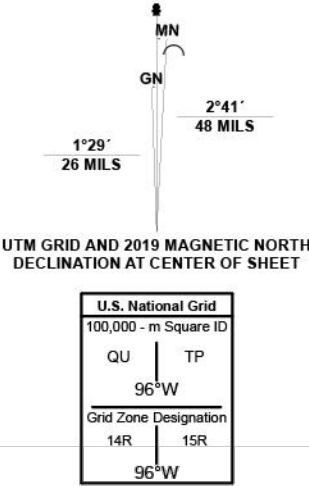


WALLER NW QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1000-meter grid/Universal Transverse Mercator, Zone 14R15R  
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  
Hanscom.....GHRS, Not Available  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2010  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available



WALLER NW, TX  
2022



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WALLER COUNTY MUD NO 64 WWTP  
NEW TPDES PERMIT

EXHIBIT 1A  
USGS WALLER NW QUAD



**Exhibit 1B – USGS Hempstead Quad Map**  
(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)

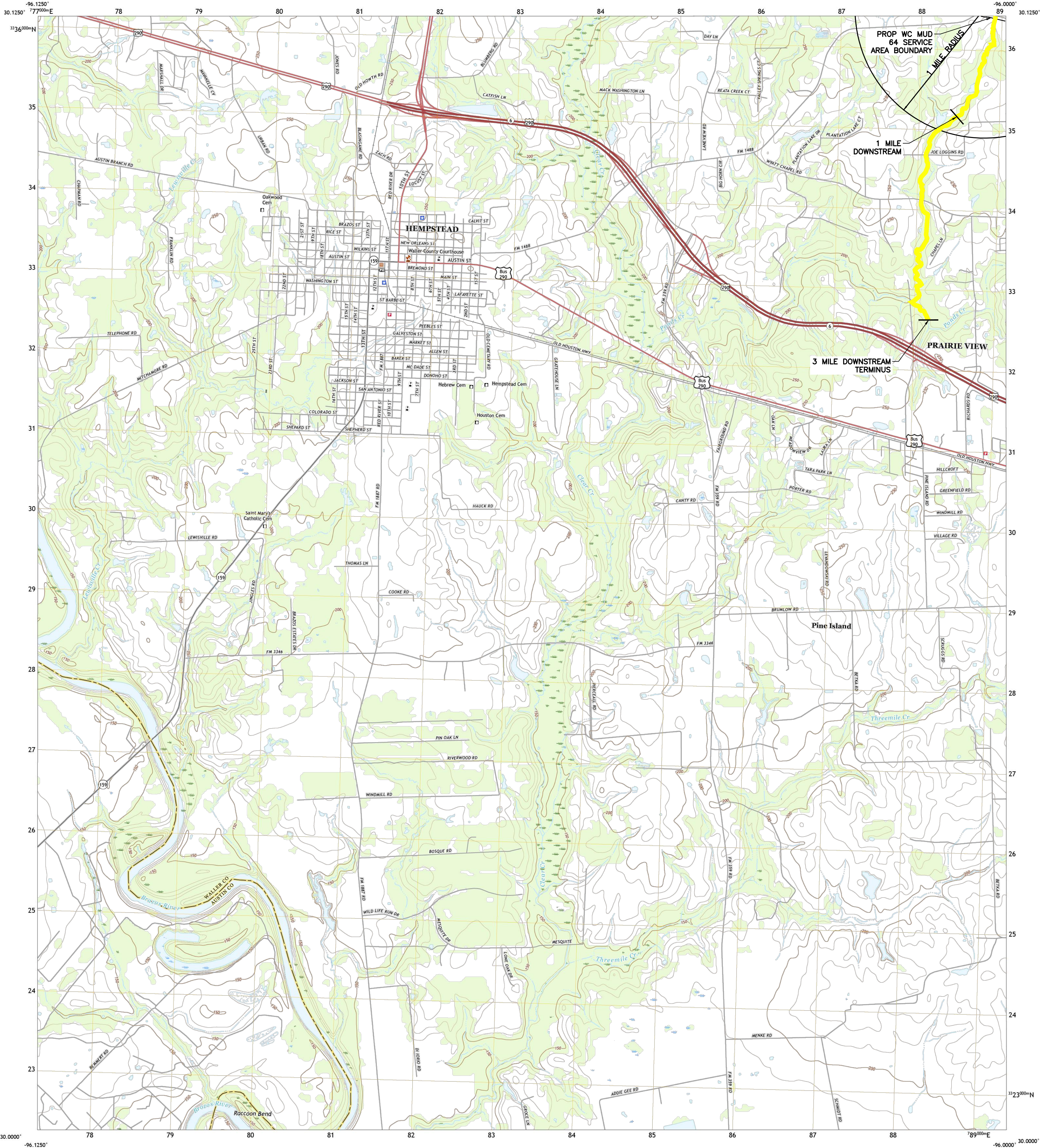




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HEMPSTEAD QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84) Projection and  
1 000-meter grid/Universal Transverse Mercator, Zone 14B  
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Imagery.....NAIP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNIS, 1979 - 2021  
Hydrography.....National Hydrography Dataset, 2002 - 2018  
Contours.....National Elevation Dataset, 2004  
Boundaries.....Multiple sources; see metadata file 2019 - 2021  
Wetlands.....FWS National Wetlands Inventory Not Available

UTM GRID AND 2019 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET  
U.S. National Grid  
QU TP  
Grid Zone Designation  
14R 15R  
96°W 96°W

SCALE 1:24 000  
1 000 0 0.5 1 2  
1000 500 0 500 1000 2000  
1 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000  
FEET  
CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard.



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

1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Daniels  
2 Howls  
3 Waller HW  
4 Buckhorn  
5 Waller  
6 Burleigh  
7 Sunny Side  
8 Hockley Mount

HEMPSTEAD, TX  
2022



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

ENGINEERING THE FUTURE  
SINCE 1936  
WALLER COUNTY MUD NO 64 WWTP  
NEW TPDES PERMIT

EXHIBIT 1B  
USGS HEMPSTEAD QUAD



## **Exhibit 1C – USGS Waller Quad Map**

(Corresponds to Administrative Report 1.0, Section 13, Page 11 of 18)



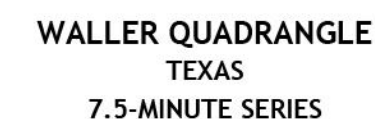


EXHIBIT 1C  
USGS WALLER QUAD

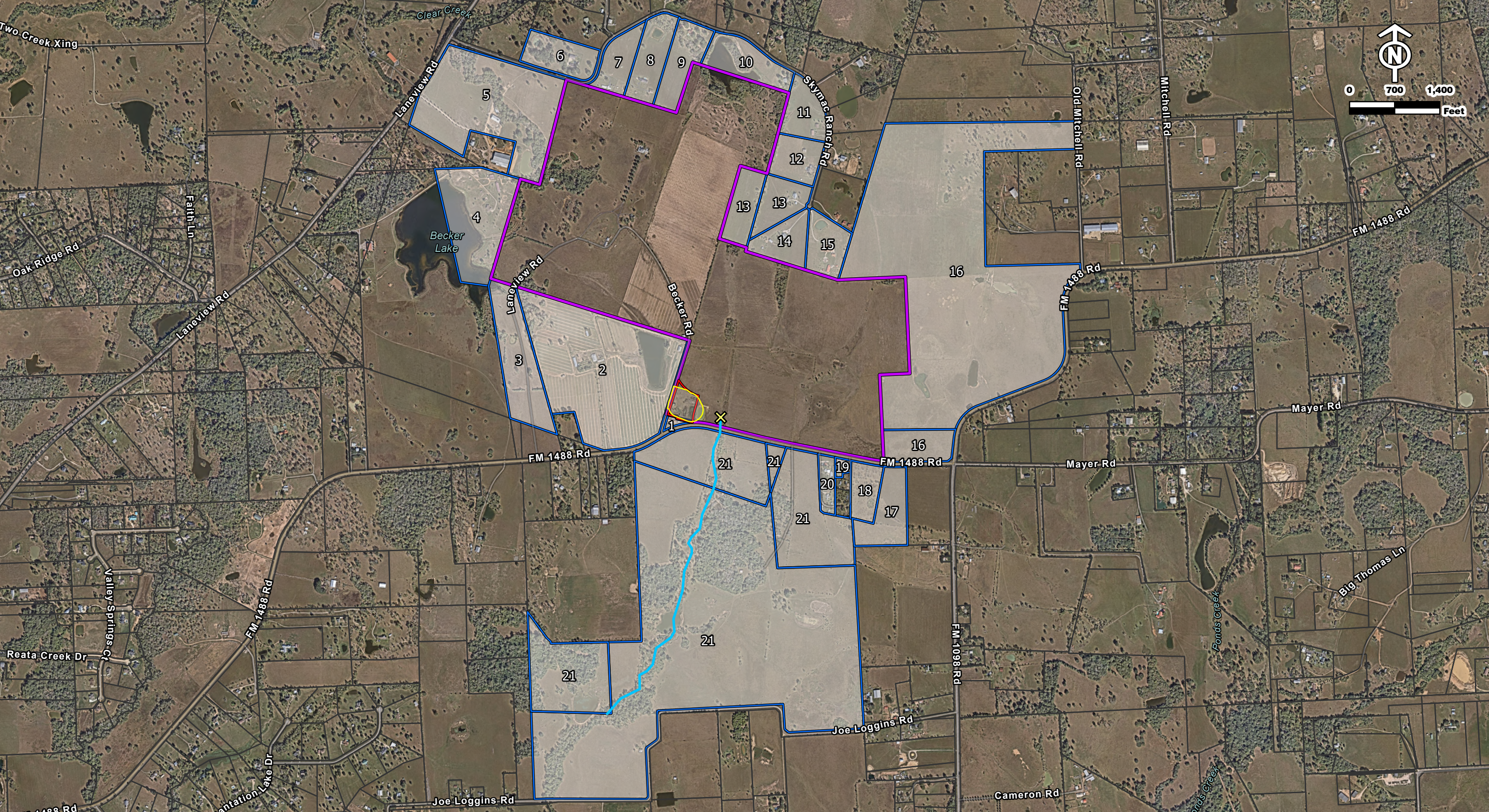
EXHIBIT 1C  
USGS WALLER QUAD



## **Exhibit 2 – Affected Landowner Map**

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





# Waller County MUD No. 64 WWTP 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 18)





Enhancing the Future  
Since 1989

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TWEBSITE: F-725 | TWITTER: @EHRAINC

WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

EXHIBIT 3  
PHOTO 1  
UPSTREAM





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TX Reg. F-725 | TSPS No. 20080202

**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

EXHIBIT 3  
PHOTO 2  
OUTFALL





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SHAPING THE FUTURE  
SINCE 1985

**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

EXHIBIT 3  
PHOTO 3  
DOWNSTREAM





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Since 1996

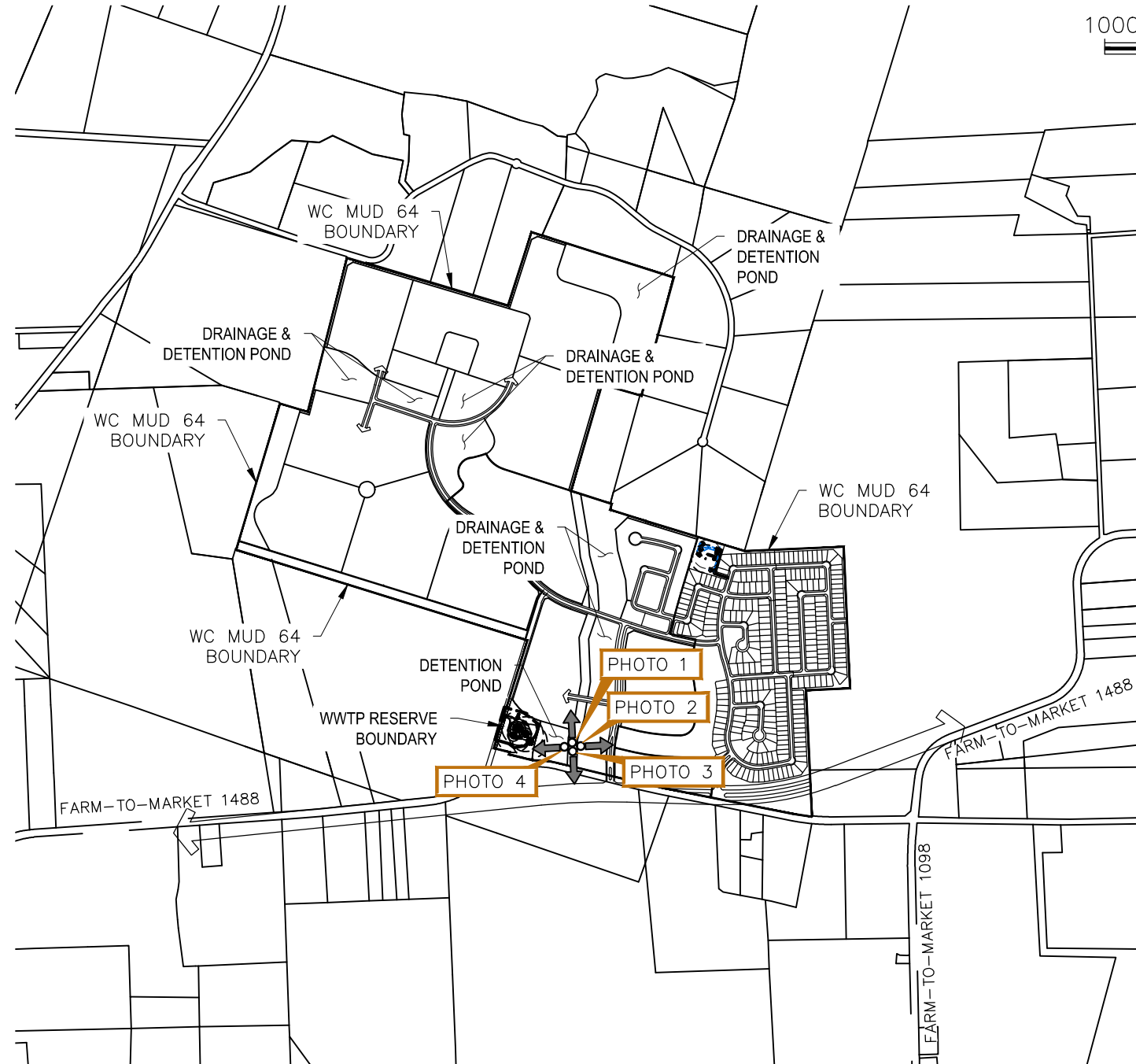
**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

EXHIBIT 3  
PHOTO 4  
WWTP SITE



**Exhibit 3A – Photograph Reference Map**  
(Corresponds to Administrative Report 1.1, Section 2, Page 14 of 18)





○  
PHOTO LOCATION



WWTP LOCATION



SERVICE AREA



CAMERA  
DIRECTION



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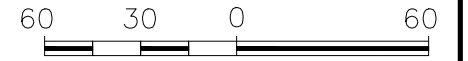
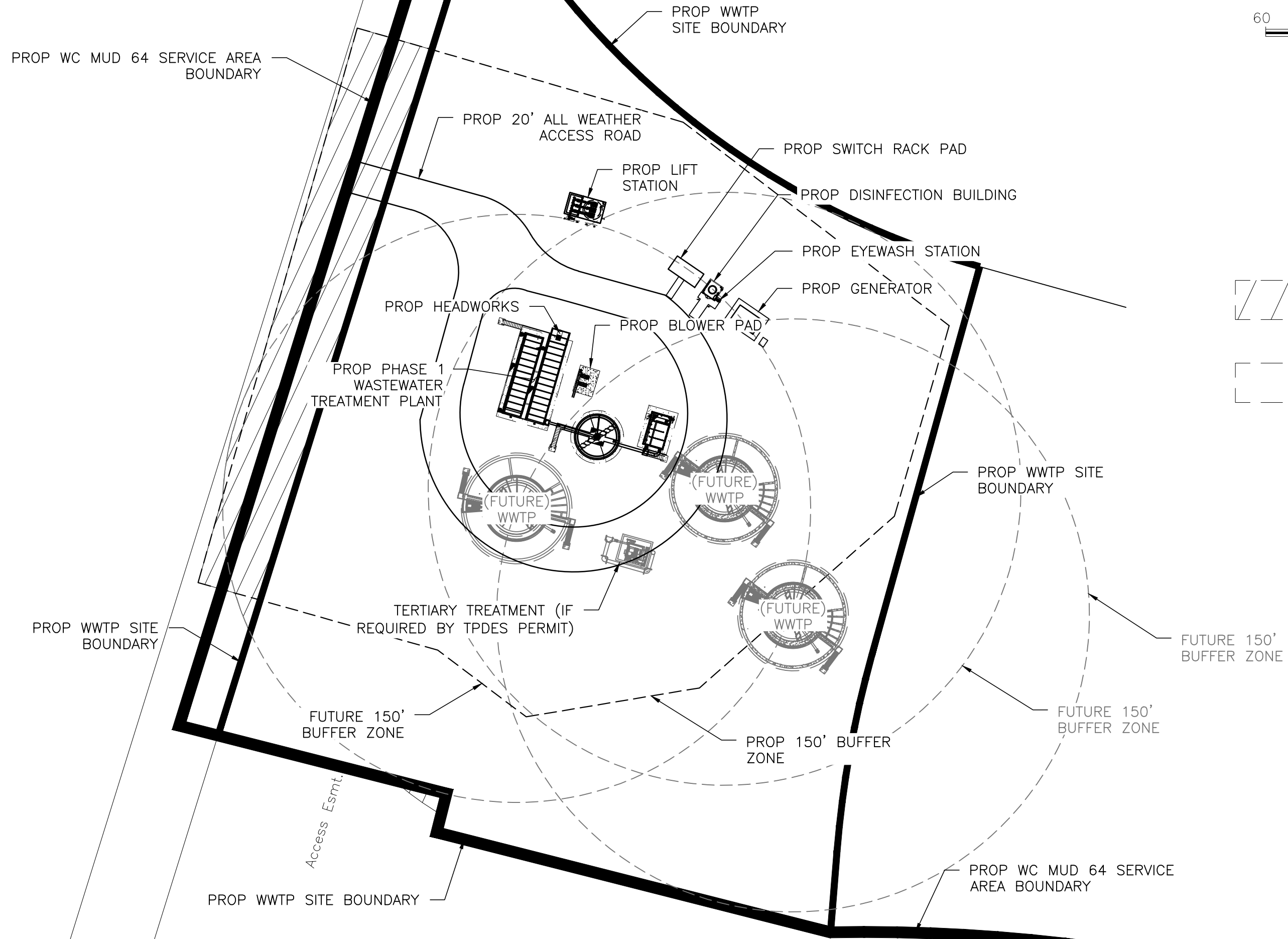
**WALLER COUNTY MUD NO 65  
NEW TPDES PERMIT**

EXHIBIT 3A  
PHOTOGRAPH  
REFERENCE MAP

## **Exhibit 4 – Buffer Zone Map**

(Corresponds to Administrative Report 1.1, Item 3.A, Page 14 of 18)

P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\EXHIBIT 4 BUFFER ZONE MAP.dwg Mar 03, 2025--4:19pm Edited by: SVallejo



**LEGEND**

- BUFFER ZONE MAINTAINED BY RESTRICTIVE EASEMENT (DRAINAGE EASEMENT, ROW, LANDSCAPE RESERVE)
- BUFFER ZONE MAINTAINED BY RESTRICTIVE EASEMENT & OWNERSHIP (WWTP RESERVE EASEMENT)



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Houston, Texas 77042  
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NEW TPDES PERMIT**

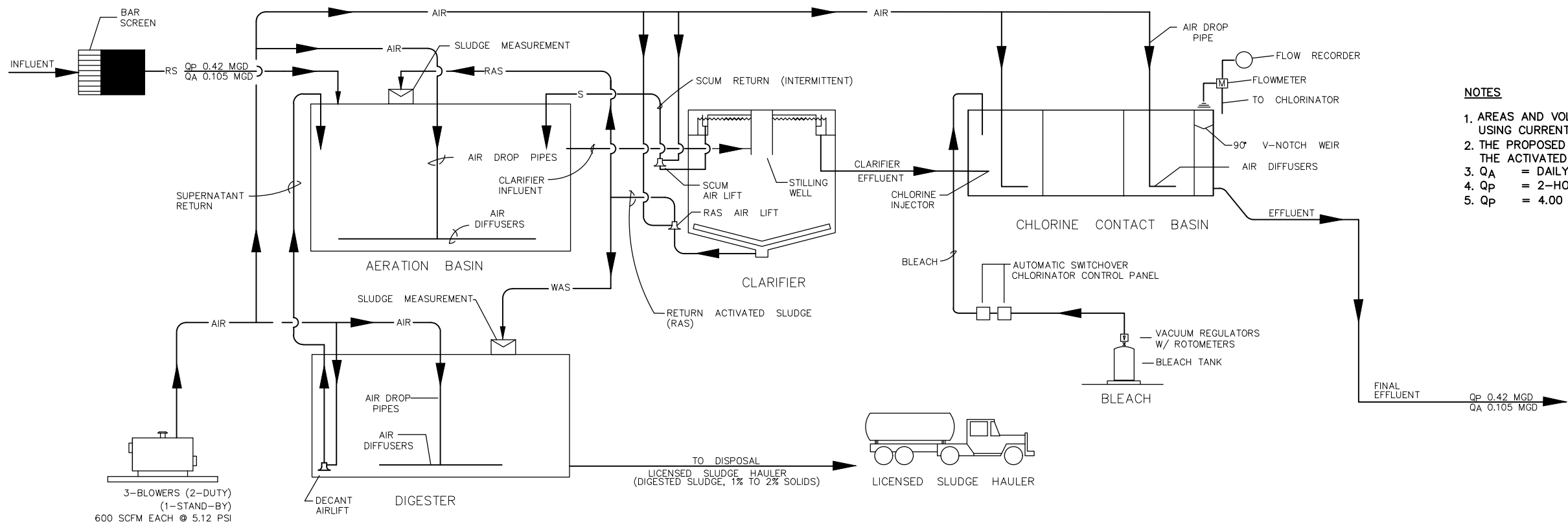
**EXHIBIT 4  
BUFFER ZONE MAP**



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

P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\Exhibit 5 - Process Flow Diagram.dwg Mar 12, 2025-4:50pm Edited by: SVallejo

	PHASE I
Flow, Q <sub>A</sub> (gpd)	105,000
Flow, Q <sub>P</sub> (gpd)	420,000
Flow, Q <sub>A</sub> (gpm)	73
ESFC Served 300 gpd	350
Aeration Capacity (cu ft.)	7,682
Clarifier Capacity (cu ft.)	6,786
Digester Capacity (cu ft.)	6,658
Chlorine Contact Chamber Capacity (cu ft.)	1,140



**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<sub>A</sub> = DAILY AVERAGE FLOW = 0.105 MGD = 0.16 CFS
4. Q<sub>P</sub> = 2-HOUR PEAK FLOW = 0.42 MGD = 0.65 CFS
5. Q<sub>P</sub> = 4.00 \* Q<sub>A</sub>

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

**VESSEL DESIGNATION**

**PROPOSED CONSTRUCTION:**

Aeration (1 Basin)	60.0 ft. long x 12.0 ft. wide x 10.67 ft. SWD
Digester (1 Basins)	52.0 ft. long x 12.0 ft. wide x 10.67 ft. SWD
Clarifier (1 Basin)	24.0 ft. Dia. x 15.0 ft. SWD
Chlorine Contact (1 Basin)	10.0 ft. long x 12.0 ft. wide x 9.50 ft. SWD

**DIMENSIONS**

**VOLUME**

7,682 ft <sup>3</sup>
6,658 ft <sup>3</sup>
6,786 ft <sup>3</sup>
1,140 ft <sup>3</sup>

**PROCESS FLOW DIAGRAM**

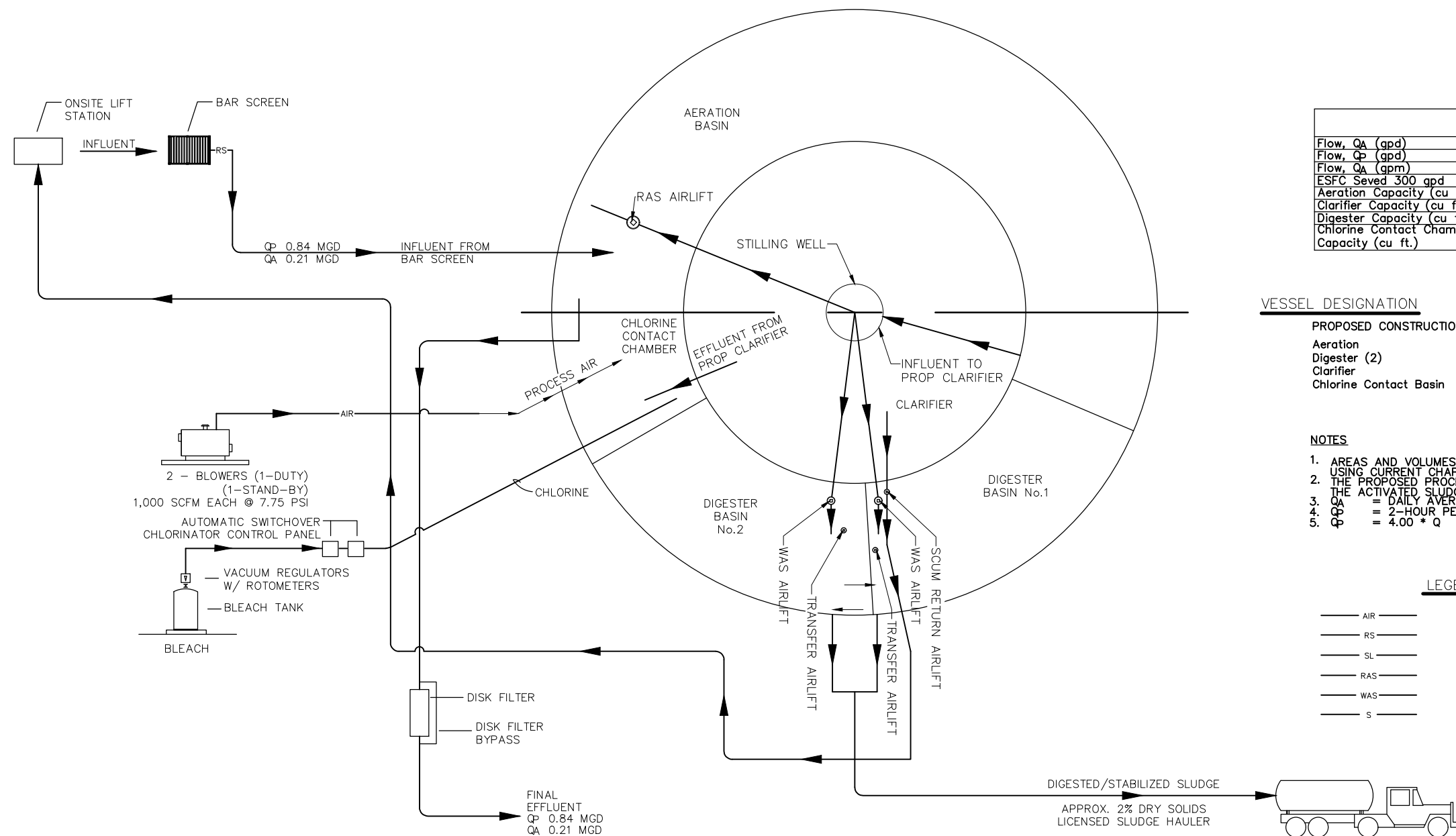


**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

**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)





	INTERIM PHASE 2*
Flow, QA (gpd)	210,000
Flow, Qp (gpd)	840,000
Flow, QA (gpm)	146
ESFC Seved 300 gpd	700
Aeration Capacity (cu ft.)	16,800
Clarifier Capacity (cu ft.)	12,063
Digester Capacity (cu ft.)	11,648
Chlorine Contact Chamber Capacity (cu ft.)	4,041

\* PHASE 2 TO REPLACE  
PHASE 1 ENTIRELY.

<u>VESSEL DESIGNATION</u>	<u>DIMENSIONS</u>	<u>PROPOSED VOLUME</u>	<u>DEGREES</u>
PROPOSED CONSTRUCTION:			
Aeration	75.0 ft. L x 14.0 ft. W x 16.0 ft. SWD	16,800 ft <sup>3</sup>	180
Digester (2)	26.0 ft. L x 14.0 ft. W x 16.0 ft. SWD	11,648 ft <sup>3</sup>	135
Clarifier	32.0 ft. Dia. x 15.0 ft. SWD	12,063 ft <sup>3</sup>	N/A
Chlorine Contact Basin	16.0 ft. L x 14.0 ft. W x 15.0 ft. SWD	4,041 ft <sup>3</sup>	45

## NOTES

1. AREAS AND VOLUMES SHOWN ARE EQUAL TO OR GREATER THAN MINIMUMS USING CURRENT CHAPTER 217 T.C.E.C. DESIGN CRITERIA.
2. THE PROPOSED PROCESS UTILIZES THE COMPLETE-MIX MODE OF THE ACTIVATED SLUDGE PROCESS.
3.  $Q_A$  = DAILY AVERAGE FLOW = 0.21 MGD = 0.33 CFS
4.  $Q_P$  = 2-HOUR PEAK FLOW = 0.84 MGD = 1.30 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

### PROCESS FLOW DIAGRAM

**EHRA**  
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Houston, Texas 77042  
EHRAInc.com | 713.784.4500  
TDEP Info: F-726 | TDEP S.W. 1002202

---

**EXPANDING THE FUTURE  
SINCE 1986**

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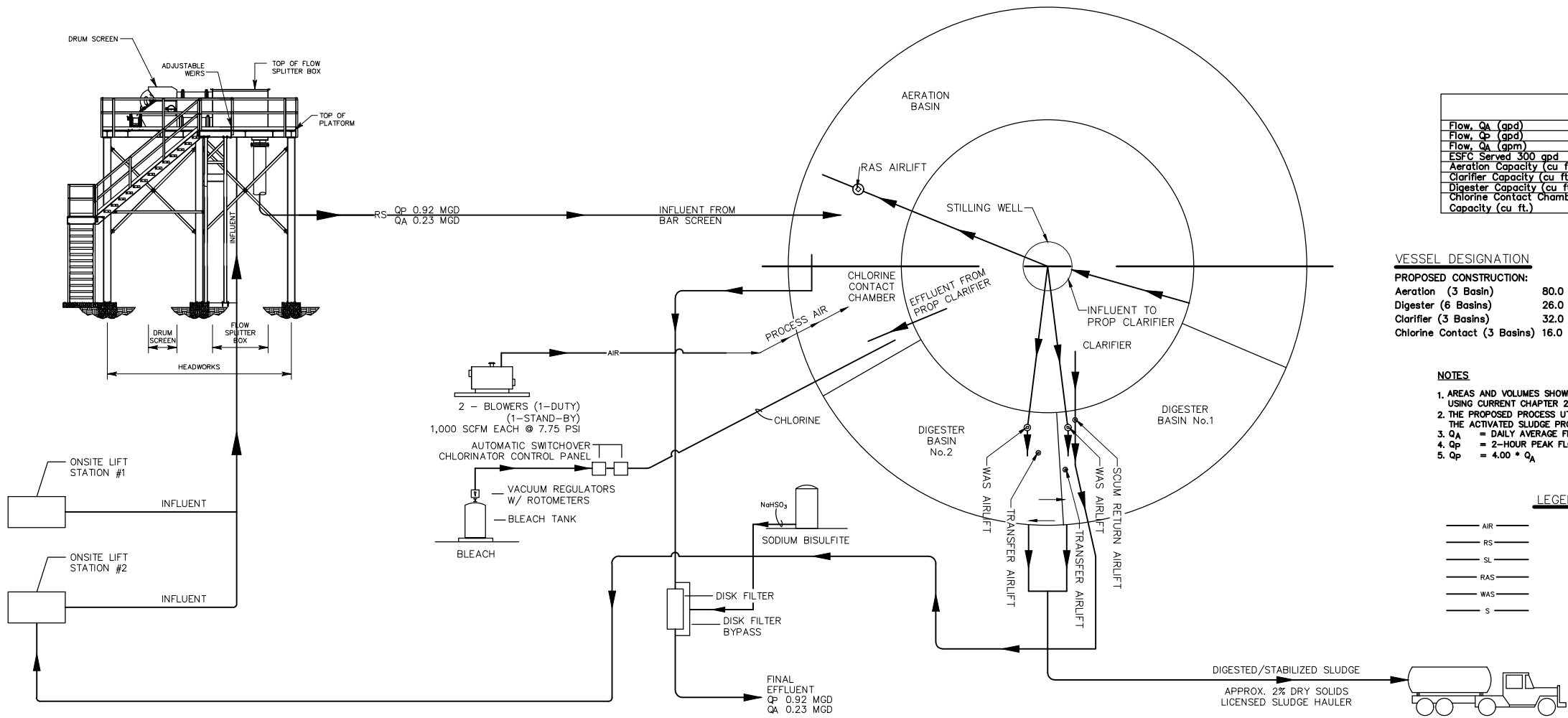
**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

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)

P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\Exhibit 5 - Process Flow Diagram.dwg Apr 08, 2025-2:29pm Edited by: Svallejp

NOTE: ULTIMATE PHASE WILL PROPOSE THREE IDENTICAL TRAINS. PROCESS FLOW DIAGRAM IS A REPRESENTATION OF A SINGLE TRAIN.



	(existing)	+	(CONSTRUCTION)	=	(TOTAL)
	INTERIM PHASE 2		ULTIMATE PHASE		ULTIMATE PHASE (CUMULATIVE)
Flow, Q <sub>a</sub> (gpd)	210,000		690,000		900,000
Flow, Q <sub>p</sub> (gpd)	840,000		2,760,000		3,600,000
Flow, Q <sub>a</sub> (gpm)	146		479		625
ESFC Served 300 gpd	700		2,300		3,000
Aeration Capacity (cu ft.)	16,800		53,760		70,560
Clarifier Capacity (cu ft.)	12,063		36,191		48,255
Digester Capacity (cu ft.)	11,648		34,944		46,592
Chlorine Contact Chamber Capacity (cu ft.)	4,041		10,776		14,817

VESSEL DESIGNATION	DIMENSIONS	VOLUME	DEGREES
PROPOSED CONSTRUCTION:			
Aeration (3 Basins)	80.0 ft. long x 14.0 ft. wide x 16.0 ft. SWD	17,920 ft <sup>3</sup>	190
Digester (6 Basins)	26.0 ft. long x 14.0 ft. wide x 16.0 ft. SWD	11,648 ft <sup>3</sup>	130
Clarifier (3 Basins)	32.0 ft. Dia. x 15.0 ft. SWD	12,064 ft <sup>3</sup>	N/A
Chlorine Contact (3 Basins)	16.0 ft. long x 14.0 ft. wide x 15.0 ft. SWD	3,592 ft <sup>3</sup>	40

- 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<sub>a</sub> = DAILY AVERAGE FLOW = 0.69 MGD = 1.07 CFS
  4. Q<sub>p</sub> = 2-HOUR PEAK FLOW = 2.760 MGD = 4.27 CFS
  5. Q<sub>p</sub> = 4.00 \* Q<sub>a</sub>

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

PROCESS FLOW DIAGRAM



WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

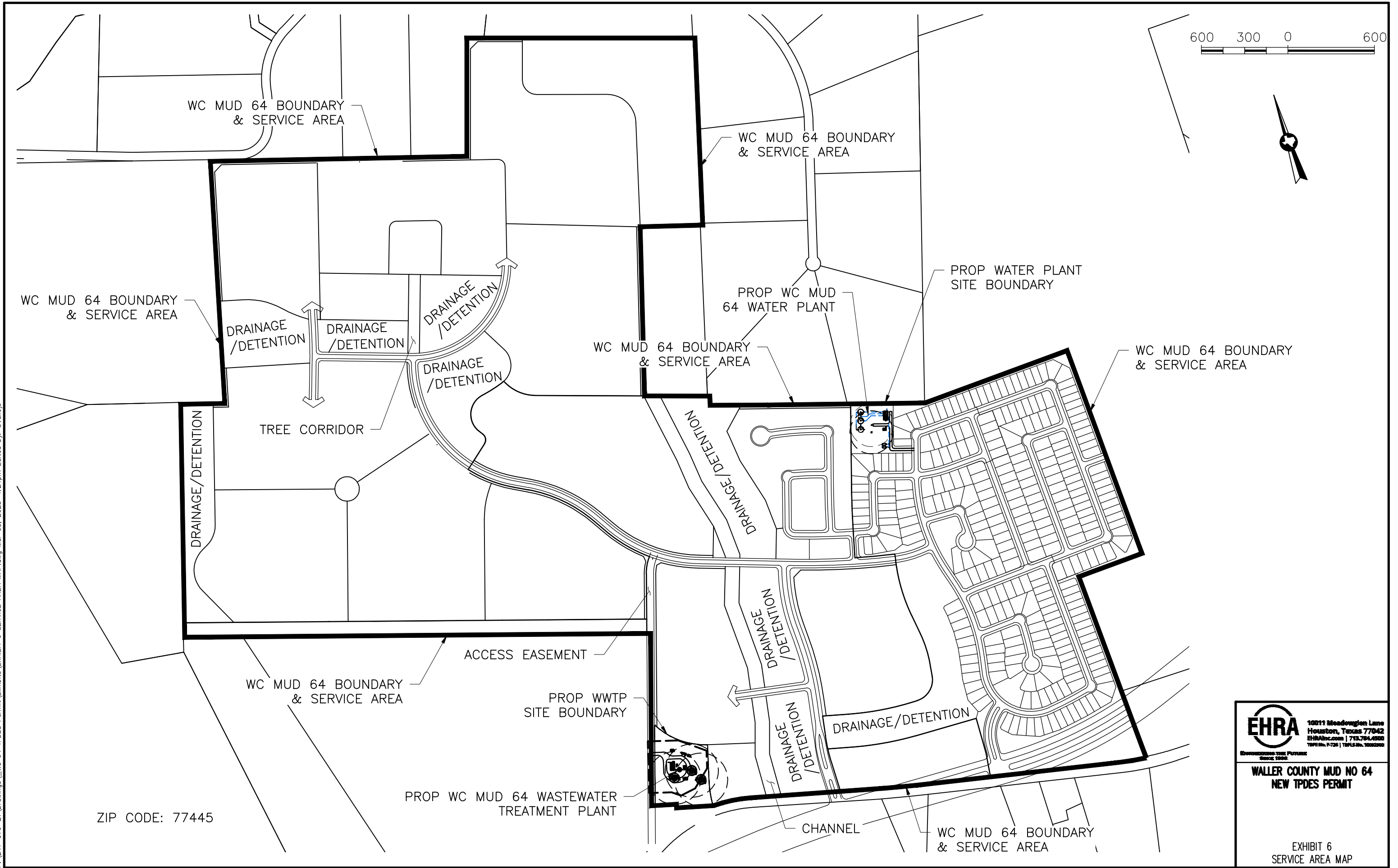
EXHIBIT 5B  
PROCESS FLOW DIAGRAM  
ULTIMATE PHASE



## **Exhibit 6 – Service Area Map**

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

P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\EXHIBIT 6 SERVICE AREA MAP.dwg Mar 03, 2025-4:24pm Edited by: SVallejo



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**WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT**

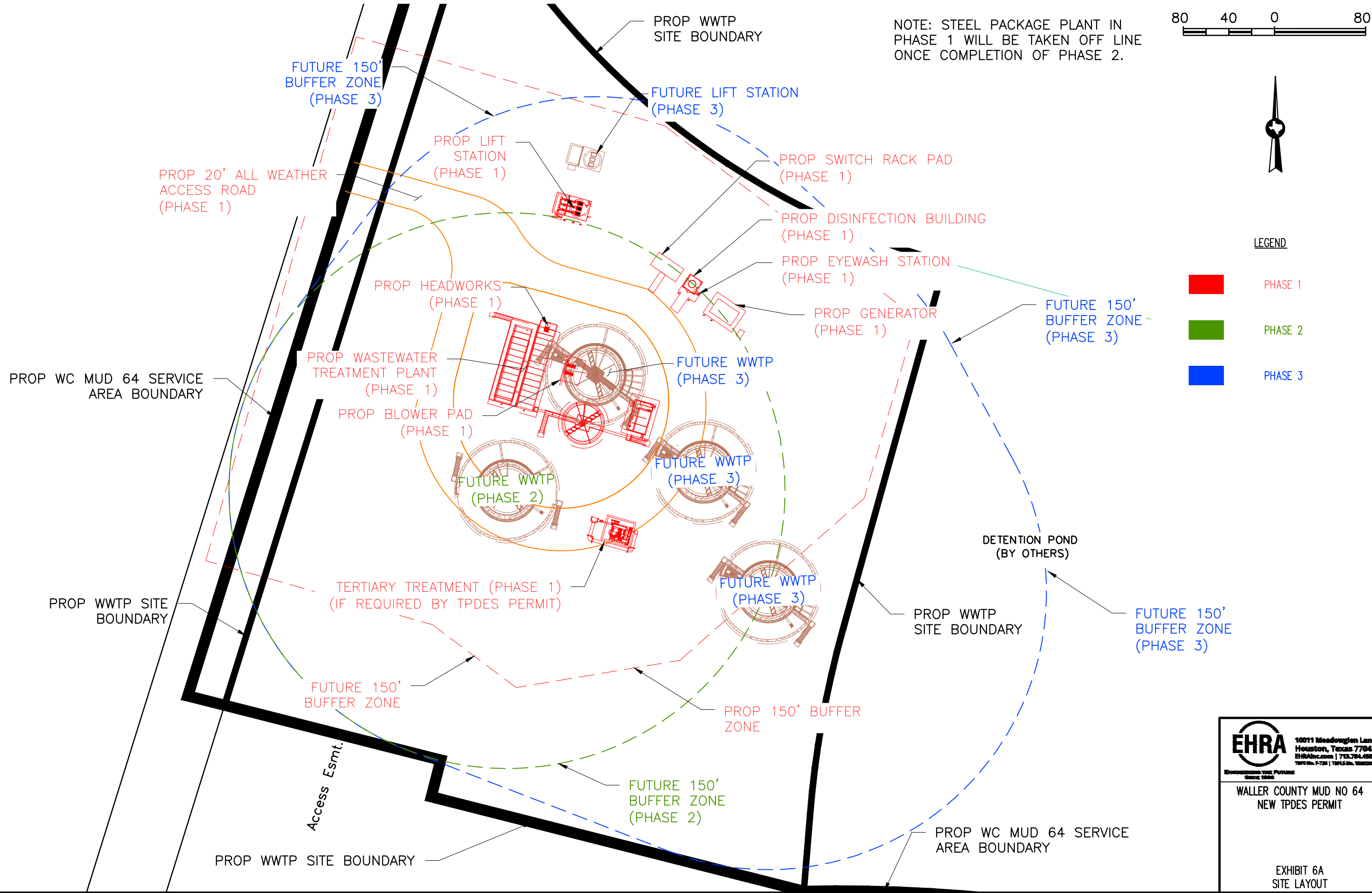
EXHIBIT 6  
SERVICE AREA MAP

## **Exhibit 6A – Site Layout**

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



P:\241-076-21\Drawings\WC 64 TPDES Permit\Exhibits\EXHIBIT 6A SITE LAYOUT.dwg Mar 06, 2025-1:04pm Edited by: Svallejo





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Houston, Texas 77042  
EHRAInc.com | 713.784.1600  
Toll-free: 1-800-391-1600

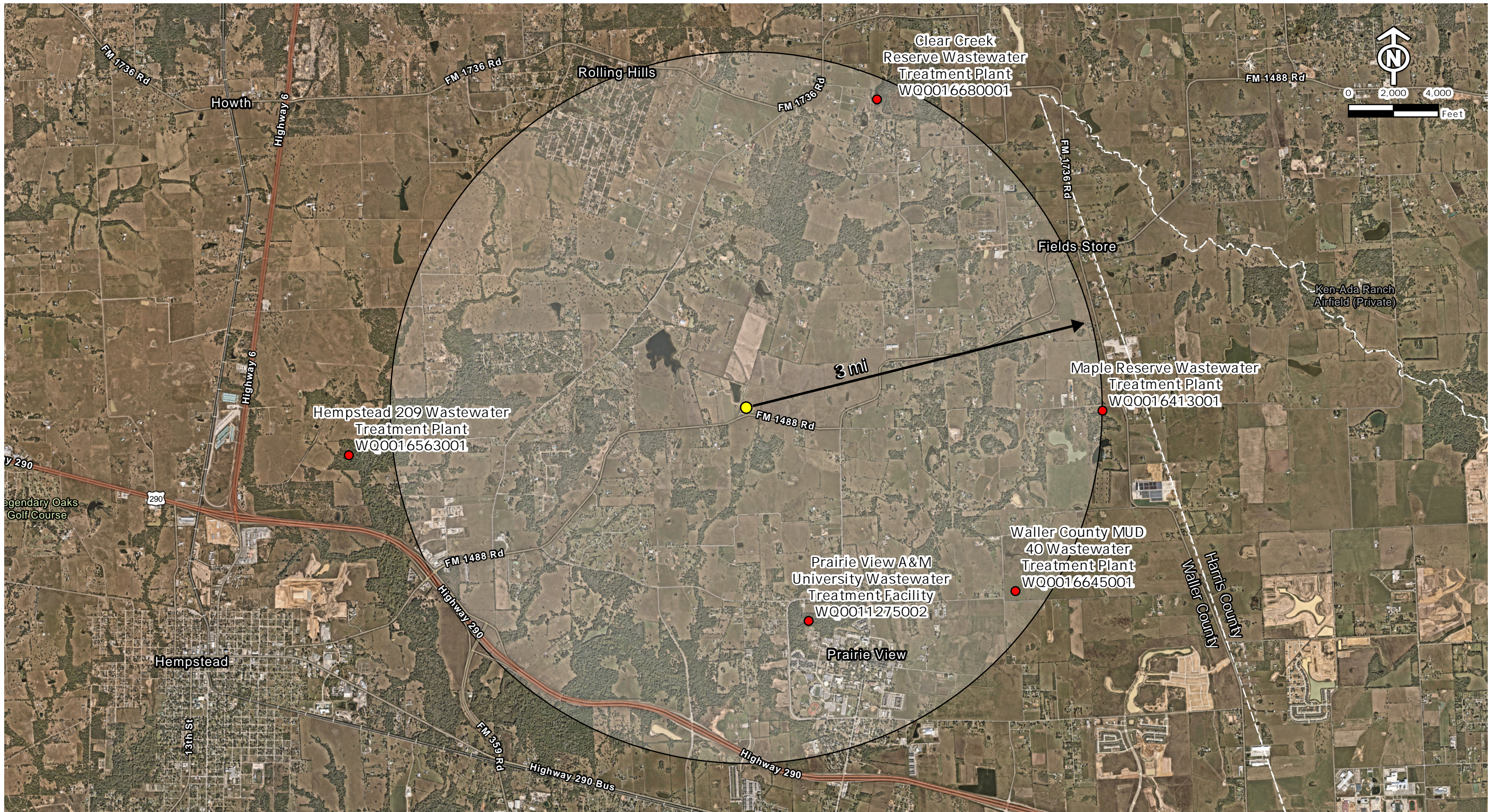
WALLER COUNTY MUD NO 64  
NEW TPDES PERMIT

EXHIBIT 6A  
SITE LAYOUT

## **Exhibit 7 – Regionalization Map**

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





# Waller County MUD No. 64 WWTP New TPDES Permit

## Exhibit 7 - WWTPs Within 3 Mile Radius

- Wastewater Treatment Plants
- Waller County MUD No. 64 WWTP
- 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

<b>1. Reason for Submission</b> (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	
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN		RN

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (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>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Sagebrush 1 LLC					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b>	<b>10. DUNS Number</b> (if applicable)
0805640276		32096077402		(9 digits)	
<b>11. Type of Customer:</b>		<input 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 checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<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	
<b>14. Customer Role</b> (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					
<b>15. Mailing Address:</b>		Sagebrush 1 LLC			
		1333 West Loop South, Suite 910			
City		Houston	State	TX	ZIP
				77027	ZIP + 4
					9116
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
				ltiel@mapledevelopmentgroup.com	

<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number (if applicable)</b>
( 832 ) 804-9680		(   )   -

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (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>								
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)								
Waller County Municipal Utility District No. 64 Wastewater Treatment Plant								
<b>23. Street Address of the Regulated Entity:</b>  (No PO Boxes)	TBD							
	<b>City</b>		<b>State</b>		<b>ZIP</b>		<b>ZIP + 4</b>	
<b>24. County</b>								

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

<b>25. Description to Physical Location:</b>	Approximately 0.82 miles northwest of the intersection of Farm-to-Markter 1488 and Farm-to-Markter 1098							
<b>26. Nearest City</b>					<b>State</b>	<b>Nearest ZIP Code</b>		
Hempstead					TX	77445		
<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>								
<b>27. Latitude (N) In Decimal:</b>		30.1262			<b>28. Longitude (W) In Decimal:</b>		96.0032	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	07	34.35	96	00	11.55			
<b>29. Primary SIC Code</b> (4 digits)	<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)		<b>32. Secondary NAICS Code</b> (5 or 6 digits)			
<b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.)								
Wastewater Treatment Plant								
<b>34. Mailing Address:</b>	Sagebrush 1 LLC							
	1333 West Lopp South, Suite 910							
	<b>City</b>	Houston	<b>State</b>	TX	<b>ZIP</b>	77027	<b>ZIP + 4</b>	
<b>35. E-Mail Address:</b>	Itiel@mapledevelopmentgroup.com							
<b>36. Telephone Number</b>	<b>37. Extension or Code</b>				<b>38. Fax Number (if applicable)</b>			
( 832 ) 804-9680					(   )   -			



**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**

<b>40. Name:</b>	Krsytal Regner, P.E.	<b>41. Title:</b>	Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>
( 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.

<b>Company:</b>	Sagebrush 1 LLC	<b>Job Title:</b>	Manager
<b>Name (In Print):</b>	Itiel Kaplan	<b>Phone:</b>	( 832 ) 804- 9680
<b>Signature:</b>		<b>Date:</b>	2/3/2025

**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.*

Sagebrush 1 LLC (CN Pending ) proposes to operate Waller County Municipal Utility District No. 64 Wastewater Treatment Plant (RN Pending), a wastewater treatment plant that shall consist of one (1) elevated headwork, four (4) aeration basins, four (4) final clarifiers, eight (8) aerobic digesters and four (4) chlorine contact basin. The facility will be located at approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098., in Waller, Waller County, Texas 77445. This application is for a new application to discharge at a daily average flow of 900,000 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, and 1-4 mg/L chlorine. 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.*

Sagebrush 1 LLC (CN Pendiente) propone operar la Planta de Tratamiento de Aguas Residuales del Distrito de Servicios Públicos Municipales del Condado Waller No. 64 (RN Pendiente), una planta de concreto que va a consistir en una (1) plataforma elevada, cuatro (4) tanques de aeración, cuatro (4) clarificadores finales, ocho (8) digestores aeróbicos, y cuatro (4) tanques de contacto de cloro. La instalación estará ubicada en aproximadamente 0.82 millas noroeste de la intersección de Farm-to-Market 1488 y Farm-to-Market 1098, en Waller, Condado de Waller, Texas 77445. 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 900,000 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 domésticas. **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 1.1, Section 1.B, Page 13 of 18)

ID	Parcel ID	Current Owner	Address	City	State	Zip
1	9598	VAIL LUTHER J	P O BOX 388	WALLER	TX	77484
2	9592	WATSON J F TRUSTEE	4024 SPRING CYPRESS RD	SPRING	TX	77388
3	9586	TERPSTRA PETER S	19815 BECKER RD	HOCKLEY	TX	77447
4	243553	RUSSELL JULIE A	24580 LANEVIEW RD	HEMPSTEAD	TX	77445
5	268918	RADHA SOAMI SOCIETY BEAS AMERICA	4115 GILLESPIE ST	FAYETTEVILLE	NC	28306
6	236909	HUMPHRIES REAL ESTATE LLC	24998 MITCHELL RD	HEMPSTEAD	TX	77445
7	236911	BRANDA THOMAS & SHERRY &	29623 SKYMAC RANCH ROAD	HEMPSTEAD	TX	77445
8	236913	RICKEN JEFFREY & ABBE	29541 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
9	236915	THOMPSON MICHAEL J & DIANNE M	29501 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
10	237949	MITCHAM DANNY & ARTIE	29451 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
11	237948	LAAKE JAMES D & LISA D	29351 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
12	237947	EARDLEY WALTER A & REGINA A	29271 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
13	237946	FRANKLIN DAN L & LEA ANN	29221 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
14	237945	HEAP LANCE E & JENA M	29201 SKYMAC RANCH ROAD	HEMPSTEAD	TX	77445
15	237944	SARANDOS GEORGE & ATHENA	29200 SKYMAC RANCH RD	HEMPSTEAD	TX	77445
16	9214	SRO INVESTMENTS LTD	8830 LONG POINT, SUITE 700	HOUSTON	TX	77055
17	167071	PHILLIPS PAUL W & VICKY	23912 FM 1098	HEMPSTEAD	TX	77445
18	9280	BUI NGOCDUNG THI	18723 FOX PRAIRIE	HOUSTON	TX	77084
19	9254	ZIENTEK LARRY	37395 FM 1488 ROAD	HEMPSTEAD	TX	77445
20	9253	BONACASSIO PROPERTY LLC	28565 MELLMAN ROAD	HEMPSTEAD	TX	77445
21	151768	CC WALLER 1488 LP	9955 BARKER CYPRESS #250	CYPRESS	TX	77433

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

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



VAIL LUTHER J  
P O BOX 388  
WALLER, TX 77484

WATSON J F TRUSTEE  
4024 SPRING CYPRESS RD  
SPRING, TX 77388

TERPSTRA PETER S  
19815 BECKER RD  
HOCKLEY, TX 77447

RUSSELL JULIE A  
24580 LANEVIEW RD  
HEMPSTEAD, TX 77445

RADHA SOAMI SOCIETY BEAS  
AMERICA  
4115 GILLESPIE ST  
FAYETTEVILLE, NC 28306

HUMPHRIES REAL ESTATE LLC  
24998 MITCHELL RD  
HEMPSTEAD, TX 77445

BRANDA THOMAS & SHERRY &  
29623 SKYMAC RANCH ROAD  
HEMPSTEAD, TX 77445

RICKEN JEFFREY & ABBE  
29541 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

THOMPSON MICHAEL J & DIANNE  
M  
29501 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

MITCHAM DANNY & ARTIE  
29451 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

LAAKE JAMES D & LISA D  
29351 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

EARDLEY WALTER A & REGINA A  
29271 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

FRANKLIN DAN L & LEA ANN  
29221 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

HEAP LANCE E & JENA M  
29201 SKYMAC RANCH ROAD  
HEMPSTEAD, TX 77445

SARANDOS GEORGE & ATHENA  
29200 SKYMAC RANCH RD  
HEMPSTEAD, TX 77445

SRO INVESTMENTS LTD  
8830 LONG POINT, SUITE 700  
HOUSTON, TX 77055

PHILLIPS PAUL W & VICKY  
23912 FM 1098  
HEMPSTEAD, TX 77445

BUI NGOCDUNG THI  
18723 FOX PRAIRIE  
HOUSTON, TX 77084

ZIENTEK LARRY  
37395 FM 1488 ROAD  
HEMPSTEAD, TX 77445

BONACASSIO PROPERTY LLC  
28565 MELLMAN ROAD  
HEMPSTEAD, TX 77445

CC WALLER 1488 LP  
9955 BARKER CYPRESS #250  
CYPRESS, TX 77433

**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](mailto:WQ-ARPTeam@tceq.texas.gov) or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Sagebrush 1 LLC

Permit No. WQ00 New Permit

EPA ID No. TX New Permit

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

The proposed wastewater treatment plant is located approximately 0.82 miles northwest of the intersection of Farm-to-Market 1488 and Farm-to-Market 1098 in Waller County, TX.



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: Waller
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 WWTP to an unnamed drainage ditch, thence to Ponds Creek Segment 1202P; thence to Clear Creek Segment 1202Q; then to Brazos River Below Navasota River; then to Brazos River Tidal.

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 4.0 acres of clearing. Construction of a steel package 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. Construction of the wastewater treatment plant is proposed to be complete in April 2027.

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

The proposed WWTP will be located on a 470-acre piece of property. The property currently is mostly grassland with some shrubs and trees. Maple Development Group 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 – 0.105 MGD (Steel Packaged Plant)

Treatment Unit	No. of Units	Dimensions (L x W x D)
Aeration Basin	1	60'-0" x 12'-0" x 10'-8"
Digester Basin	1	52'-0" x 12'-0" x 10'-8"
Final Clarifier	1	24'-0" DIA x 15'-0" SWD
Chlorine Contact Basin	1	10'-0" x 12'-0" x 9'-6"

### Interim Phase – 0.21 MGD (Concrete Bullseye Plant)

Treatment Unit	No. of Units	Dimensions (L x W x D)
Aeration Basin	1	75'-0" x 14'-0" x 16'-0"
Digester Basin	2	26'-0" x 14'-0" x 16'-0"
Final Clarifier	1	32'-0" DIA x 15'-0" SWD
Chlorine Contact Basin	1	16'-0" x 14'-0" x 15'-0"

### Final Phase – 0.90 MGD (Concrete Bullseye Plants)

Treatment Unit	No. of Units	Dimensions (L x W x D)
Aeration Basin	1	75'-0" x 14'-0" x 16'-0"
	3	80'-0" x 14'-0" x 16'-0"
Digester Basin	8	26'-0" x 14'-0" x 16'-0"
Final Clarifier	4	32'-0" DIA x 15'-0" SWD
Chlorine Contact Basin	4	16'-0" x 14'-0" x 15'-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 WC MUD No. 64 WWTP

Influent Design Flow: Phase 1 - 0.105 MGD  
Phase 2 - 0.21 MGD  
Phase 3 - 0.90 MGD

Influent BOD Concentration: 300 mg/L

		cu. ft.	gal
Aerobic Digester Volume:	Phase 1:	6,658	49,802
	Phase 2:	11,648	87,127
	Phase 3:	46,592	348,508

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

Table 1 - Sludge Production (Phase 1)

<b>Solids Generated</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds Influent BOD5	263	197	131	66
Pounds of digested dry sludge produced*	92	69	46	23
Pounds of wet sludge produced	4,600	3,450	2,300	1,150
Gallons of wet sludge produced	548	411	274	137

Table 2 - Sludge Production (Phase 2)

<b>Solids Generated</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds Influent BOD5	526	394	263	131
Pounds of digested dry sludge produced*	184	138	92	46
Pounds of wet sludge produced	9,201	6,901	4,600	2,300
Gallons of wet sludge produced	1,097	822	548	274

Table 3 - Sludge Production (Phase 3)

<b>Solids Generated</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Pounds Influent BOD5	2,253	1,690	1,127	563
Pounds of digested dry sludge produced*	789	591	394	197
Pounds of wet sludge produced	39,432	29,574	19,716	9,858
Gallons of wet sludge produced	4,700	3,525	2,350	1,175



\* 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

<b>Removal Schedule (Days)</b>	<b>100% Flow</b>	<b>75% Flow</b>	<b>50% Flow</b>	<b>25% Flow</b>
Days between Sludge Removal (Phase 1)	91	121	182	363
Days between Sludge Removal (Phase 2)	79	106	159	318
Days between Sludge Removal (Phase 3)	74	99	148	297

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 49,802 gal will be approximately 91 days at 100% capacity and annual average digested sludge production of 92 ppd. In phase 2, the calculated mean cell residence time (MCRT) for the digester storage volume of 87,127 gal will be approximately 79 days at 100% capacity and annual average digested sludge production of 184 ppd. In phase 3, the calculated mean cell residence time (MCRT) for the digester storage volume of 348,508 gal will be approximately 74 days at 100% capacity and annual average digested sludge production of 789 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:

PRairie View AYM UNIVERSITY  
c/o Cynthia CARTER-HORN  
PO Box 519, MS 1310  
PRairie View, TX 77446



9590 9402 9250 4295 2069 74

## 2. Article Number (Transfer from service label)

9489 0090 0027 6550 9027 39

stricted Delivery

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

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

☒ Agent☐ Addressee

## B. Received by (Printed Name)

Shantel Walker

## C. Date of Delivery

3/5/25

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

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:

Clear Creek Reserve LLC  
c/o Sherry Young P.E.  
Water Engineers  
17230 Huffmeister Rd.  
Cypress, TX 77429



9590 9402 9250 4295 2069 50

## 2. Article Number (Transfer from service label)

9489 0090 0027 6550 9027 53

ed Delivery

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

## COMP

A. S

X

## B. Received by (Printed Name)

J. M. M. M.

## C. Date of Delivery

3/5/25

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

Domestic Return Receipt



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>[Signature]</i></p>	
<p>1. Article Addressed to:</p> <p>BLUMER 209, LLC c/o EARL LEVI LOVE JR. P.E. L SQUARED ENGINEERING LLC 3307 W DAVIS ST. #100 CONROE, TX 77304</p>		<p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9489 0090 0027 6550 9027 60</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery</p>			
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p><i>[Signature]</i></p>	
<p>1. Article Addressed to:</p> <p>MAYER ROAD WWTP LLC c/o JASON SCHULTZ P.E. DE CORP. 3100 WEST ALABAMA ST. HOUSTON, TX 77098</p>		<p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p>	
<p>2. Article Number (Transfer from service label)</p> <p>9489 0090 0027 6550 9027 46</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Insured Mail</p>			
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 39**

Prairie View A&M University  
c/o Cynthia Carter-Horn, Chief Financial Officer  
P.O. Box 519, MS 1310  
Prairie View, Texas 77446

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Cynthia Carter-Horn,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Prairie View A&M University Wastewater Treatment Facility (WQ0011275002) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP **can accept** the additional 0.90 MGD.

☐ **NO**, our WWTP **cannot accept** the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 46**

Mayer Road WWTP LLC  
c/o Jason Schultz, P.E.,  
DE Corp.  
3100 West Alabama Street  
Houston, Texas 77098

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Jason Shultz,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Maple Reserve Wastewater Treatment Facility (WQ0016413001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm





ENGINEERING THE FUTURE  
SINCE 1936

TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**

**Article No. 9489 0090 0027 6550 9027 46**

Mayer Road WWTP LLC  
c/o Jason Schultz, P.E.,  
DE Corp.  
3100 West Alabama Street  
Houston, Texas 77098

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Jason Schultz,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Maple Reserve Wastewater Treatment Facility (WQ0016413001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.90 MGD.

JASON SCHULTZ  
Name

3/5/2025  
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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 60**

Blumer 209, LLC  
c/o Mr. Earl Levi Love, Jr. P.E.  
L Squared Engineering LLC  
3307 W Davis Street, Suite 100  
Conroe, Texas 77304

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Mr. Earl Levi Love, Jr.,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Hempstead 209 Wastewater Treatment Facility (WQ0016563001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 6, 2025

TNHC Texas, LLC.  
Mr. Dan Whitton  
15231 Laguna Canyon Road, Suite 250  
Irvine, CA 92618

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Mr. Dan Whitton,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Waller County MUD 40 Wastewater Treatment Plant (WQ0016645001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm





TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**  
**Article No. 9489 0090 0027 6550 9027 53**

Clear Creek Reserve, LLC  
c/o Shelley Young, P.E.,  
Water Engineers, Inc.  
17230 Huffmeister Road  
Cypress, TX 77429

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Shelley Young,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Clear Creek Reserve Wastewater Treatment Plant (WQ0016680001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☐ **NO**, our WWTP cannot accept the additional 0.90 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](mailto: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  
Colton Cary, P.E. – Firm



ENGINEERING THE FUTURE  
SINCE 1936

TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**

**Article No. 9489 0090 0027 6550 9027 46**

Mayer Road WWTP LLC  
c/o Jason Schultz, P.E.,  
DE Corp.  
3100 West Alabama Street  
Houston, Texas 77098

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Jason Schultz,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Maple Reserve Wastewater Treatment Facility (WQ0016413001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.90 MGD.

JASON SCHULTZ

Name

3/5/2025

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](mailto: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  
Colton Cary, P.E. – Firm



TBPE No. F-726  
TBPLS No. 10092300

March 3, 2025

**Via Certified Mail**

**Article No. 9489 0090 0027 6550 9027 53**

Clear Creek Reserve, LLC  
c/o Shelley Young, P.E.,  
Water Engineers, Inc.  
17230 Huffmeister Road  
Cypress, TX 77429

Re: Waller County Municipal Utility District No. 64  
Proposed 0.90 MGD Wastewater Treatment Plant (WWTP)  
New TPDES Permit Application  
EHRA Project No. 241-076-21

Dear Shelley Young,

Maple Development Group is applying for a new TPDES wastewater discharge permit with an ultimate flow of 0.90 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 Clear Creek Reserve Wastewater Treatment Plant (WQ0016680001) has sufficient treatment and collection system capacity to accept this additional flow.

☐ **YES**, our WWTP can accept the additional 0.90 MGD.

☒ **NO**, our WWTP cannot accept the additional 0.90 MGD.

Shelley Young  
Name

3-6-25  
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

Susy Vallejo, E.I.T.  
Engineer III

Water and Wastewater Facilities

cc: Krystal Regner, P.E. – Firm  
Colton Cary, P.E. – Firm



**Attachment 7A – Justification for Permit Need**  
(Corresponds to Technical Report 1.1, Section 1.A, Page 19 of 66)

## **Attachment 7A – Justification of Permit Need**

(Corresponds to Technical Report 1.1, Section 1.A, Page 19 of 66)

The permittee is developing an undeveloped section in Waller County. There are currently no adjacent treatment facilities within a 3 mile radius capable of providing the anticipated amount of domestic sewage treatment for the proposed community. Current landplanning for the development includes 1,400 equivalent single family connections (esfc). This development is expected to be constructed at a rate of 280 esfc per year. The permittee is under annex negotiations with neighboring acreage that would bring the total esfc count to 3,000 in the ultimate phase. The anticipated construction start date and operation/development schedule for the proposed phases are as follow: Interim Phase I (0.105 MGD) – anticipated construction start of 04/2026, estimated plant operation start of 05/2027; Interim Phase II (0.21 MGD) – anticipated construction date 05/2028, estimated operation start of 06/2029; Ultimate Phase (0.90 MGD) – anticipated construction start of 05/2030, estimated operation start of 06/2031.

## **Attachment 8 – Design Calculations**

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



**ENGINEERING DESIGN SUMMARY  
FOR  
WALLER COUNTY MUD NO. 64  
PERMANENT WASTEWATER TREATMENT PLANT PHASE 1 - 0.105 MGD**

**PURPOSE**

The purpose of this report is to present the basis for design and summary of unit sizing and hydraulic calculations for the 0.105 mgd Wastewater Treatment Plant. This phase will provide capacity to accommodate 350 connections at 300 GPD/ESFC

**INFLUENT QUALITY CHARACTERISTICS**

The influent wastewater quality characteristics used for design are estimates based on State Design criteria and are as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>FOR PHASE I</u>
BOD <sub>5</sub>	300 mg/L
TSS	250 mg/L
NH <sub>3</sub> -N	60 mg/l

**INFLUENT FLOW CHARACTERISTICS**

The plant processes and hydraulic design are based on the following flows:

**Phase I**

Average Daily Flow (Q <sub>avg</sub> )	105,000 gpd	73 gpm
Peak 2-hour Flow (Q <sub>pk</sub> )	420,000 gpd	292 gpm

**PROCESS DESIGN**

The sewage treatment plant has been designed to produce an effluent in compliance with permitted parameters of:

CBOD <sub>5</sub>	10 mg/L
TSS	15 mg/L
NH <sub>3</sub> -N	3 mg/L
DO	4 mg/L
Chlorine Residual	1 mg/L after 20 minutes contact time

**ORGANIC LOADING**

**Influent Conditions**

**Phase I**

1 Average Daily Flow (Q <sub>avg</sub> )	105,000 gpd 73 gpm 0.16 cfs
2 Peak 2-hour Flow (Q <sub>pk</sub> )	420,000 gpd 292 gpm 0.65 cfs

**Influent (30-Day Average)**

1 BOD <sub>5</sub> (mg/L)	300 Influent concentration of wastewater strength
2 TSS (mg/L)	250
3 BOD <sub>5</sub> (lbs/day)	263 Organic Load

**Process Loadings**

1 MLSS (mg/L)	3,000
2 RASS (mg/L)	7,500
3 VSS/TSS	0.75

### Aeration

1 TCEQ maximum organic loading	35 lbs/day/1,000 cf
2 TCEQ required volume	7,514
3 Side Water Depth	10.67 ft
4 Width	12 ft
5 Length	60 ft
6 Number of tanks	1
7 Aeration volume available	7,682 cf
8 Organic Loading, (lbs/day/1,000 cf)	34.23
9 F/M, lb BOD <sub>5</sub> / lb MLVSS	0.24
10 Hydraulic retention time (hr)	13.13
11 Solids retention time (days)	27.31

### Digester

1 TCEQ minimum volume	20 cf/lb BOD <sub>5</sub>
2 TCEQ minimum detention time	40 days
3 Digester solids	30,000 mg/L
4 Volatile solids Reduction	44% Metcalf and Eddy (4th Edition)
5 MLVSS/MLSS ratio	0.75
6 Total daily solids generation	236 lb/d
7 Total solids after digestion	158 lb/d
8 TCEQ required volume (Loading)	4,718 cf
9 TCEQ required volume (Detention time)	3,378 cf
10 Side water depth	10.67 ft
11 Width	12 ft
12 Length	52.0 ft
13 Number of tanks	1
14 Digester volume available	6,658 cf
15 Digester loading,	28 cf/lb BOD <sub>5</sub>
16 Digester sludge retention time	78.84 days

### Clarifier

#### Phase I

1 TCEQ max. surface loading	1,200 gpd/sf	
2 TCEQ required surface area	350 sf	
3 Diameter	24 ft	
4 Side water depth	15.0 ft	
5 Number of units	1	
6 Area	452 sf	
7 Surface loading @ Q <sub>avg</sub>	232 gpd/sf	
8 Surface loading @ Q <sub>pk</sub>	928 gpd/sf	
9 TCEQ min. detention time @ Q <sub>avg</sub>	6 hours	
10 TCEQ min. detention time @ Q <sub>pk</sub>	1.8 hours	
11 Detention time @ Q <sub>avg</sub>	11.6 hours	
12 Detention time @ Q <sub>pk</sub>	2.90 hours	
13 TCEQ maximum weir loading	20,000 gpd/ft	
14 Weir length	75 ft	
15 Weir loading at Q <sub>pk</sub>	5,570 gpd/ft	
16 Min RAS Flow	63 gpm	200 gpd/sf of clarifier
17 Max RAS Flow	126 gpm	400 gpd/sf of clarifier
18 WAS Flow	4,205 gpd	
19 Required Torque for Drive Unit	2,160 lbs-ft	Assumes avg sludge loading of 15lbs/ft on
" "	0.31 HP	

### Chlorine Contact Chamber

1 TCEQ min. detention time	20 minutes
2 Volume required @ $Q_{pk}$	781 cf
3 Side water depth	9.5 ft
4 Width	12 ft
5 Length	10 ft
6 Number of tanks	1
7 Volume provided	1,140 cf
8 Detention time at $Q_{pk}$	29.20 minutes

### Air Requirements

	2.2lbs O <sub>2</sub> /lb BOD <sub>5</sub> or formula (1.2(BOD)+4.3(NH <sub>3</sub> -N))/BOD, whichever 2.2 is greater
1 TCEQ minimum aeration air requirements	20 SCFM / 1,000 cf of digester volume Based on Air Diffuser Submergence
2 TCEQ minimum digester air requirements	1.82 (Table F.5 217.155(b)(2)(D))
3 Airflow Rate Correction Factor	0.07 (C=0.0075 OR F=0.02)*Diffuser Submergen
4 CWOTE	0.07 (C=0.0075 OR F=0.02)*Diffuser Submergen
5 Diffuser Type	Coarse or Fine
6 SCFM/day/lb BOD <sub>5</sub>	899 SCFM Aeration Basin
7 SCFM / 1,000 cf	133 SCFM Digester
8 CC mixing, 2.5 scfm/lf	25 SCFM Chlorine Contact Basin
9 Air lifts	80 SCFM
10 Total Air required (design)	1,137 SCFM
11 Total Air required (max)	1,706 SCFM Total Air Required (design)*1.5

### Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	10 in
Air Bridge Size	6 in
Equivalent Circular Air Pipe	7.55 in
Length of Air Bridge	52 ft
Air Diffuser Submergence	9.67 ft
Static Head on Air Diffusers	4.19 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.02 psi
Air Bridge Friction Losses	0.06 psi
Air Drop Losses (1" air drops)	0.11 psi
5% Factor of Safety	0.24 psi
Total Differential Pressure Loss	5.12
Approximate Blower Power Required	33.0 HP

Therefore ----- 3 blowers @600 SCFM with one as a standby

**ENGINEERING DESIGN SUMMARY  
FOR  
WALLER COUNTY MUD NO 64  
WASTEWATER TREATMENT PLANT - 0.21 MGD - PHASE II**

**PURPOSE**

The purpose of this report is to present the basis of design and summary of unit sizing and hydraulic calculations for the 0.21 MGD Wastewater Treatment Plant. Phase II will accommodate 700 ESFC at 300 GPD/ESFC and will replace the Phase I 0.105 MGD steel package plant.

**INFLUENT QUALITY CHARACTERISTICS**

The influent wastewater quality characteristics used for design are estimates based on State Design criteria and are as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>FOR PHASE I</u>
BOD <sub>5</sub>	300 mg/L
TSS	250 mg/L
NH <sub>3</sub> -N	45 mg/l

**INFLUENT FLOW CHARACTERISTICS**

The plant processes and hydraulic design are based on the following flows:

**Phase II**

Average Daily Flow (Q <sub>avg</sub> )	210,000 gpd	146 gpm
Peak 2-hour Flow (Q <sub>pk</sub> )	840,000 gpd	583 gpm

**PROCESS DESIGN**

The sewage treatment plant has been designed to produce an effluent in compliance with permitted parameters of:

CBOD <sub>5</sub>	7 mg/L	
TSS	15 mg/L	
NH <sub>3</sub> -N	2 mg/L	
DO	4 mg/L	
Chlorine Residual	1 mg/L	after 20 minutes contact time

**ORGANIC LOADING**

**Influent Conditions**

**Phase II**

1 Average Daily Flow (Q <sub>avg</sub> )	210,000 gpd 146 gpm 0.33 cfs
2 Peak 2-hour Flow (Q <sub>pk</sub> )	840,000 gpd 583 gpm 1.30 cfs

**Influent (30-Day Average)**

1 BOD <sub>5</sub> (mg/L)	300 Influent concentration of wastewater strength
2 TSS (mg/L)	250
3 BOD <sub>5</sub> (lbs/day)	525 Organic Load

**Process Loadings**

1 MLSS (mg/L)	3,000
2 RASS (mg/L)	7,500
3 VSS/TSS	0.75



### Aeration

1 TCEQ maximum organic loading	35 lbs/day/1,000 cf
2 TCEQ required volume	15,000 cf
3 Side Water Depth	16.0 ft
4 Width	14.0 ft
5 Length	75 ft
6 Number of tanks	1
7 Aeration volume available	16,800 cf
8 Organic Loading, (lbs/day/1,000 cf)	31.25
9 F/M, lb BOD <sub>5</sub> / lb MLVSS	0.22
10 Hydraulic retention time (hr)	14.36
11 Solids retention time (days)	29.69
12 Total diameter of plant (ft)	63.00
13 Wall Thickness (ft)	1.50 ft
14 Surface area of outer ring (sf)	2,155.13
15 Volume of outer ring (cf)	34,482.12
16 Volume per degree (cf)	95.78
17 Degrees of Aeration basin	<b>178</b>
	<b>USE 180</b>

### Digester

1 TCEQ minimum volume	20 cf/lb BOD <sub>5</sub>
2 TCEQ minimum detention time	40 days
3 Digester solids	30,000 mg/L
4 Volatile solids Reduction	44% Metcalf and Eddy (4th Ed.)
5 MLVSS/MLSS ratio	0.75
6 Total daily solids generation	475 lb/d
7 Total solids after digestion	319 lb/d
8 TCEQ required volume (Loading)	9,508 cf
9 TCEQ required volume (Detention time)	6,808 cf
10 Side water depth	16.00 ft
11 Width	14.0 ft
12 Length	26 ft
13 Number of tanks	2
14 Digester volume available	11,648 cf
15 Digester loading,	25 cf/lb BOD <sub>5</sub>
16 Digester sludge retention time	68.44 days
17 Volume per degree (cf)	95.78
18 Degrees of Digester	<b>127</b>
	<b>USE 135</b>

### Clarifier

1 TCEQ max. surface loading	1,200 gpd/sf	
2 TCEQ required surface area	700 sf	
3 Diameter	32 ft	
4 Side water depth	15.00 ft	
5 Number of units	1	
6 Area	804 sf	
7 Surface loading @ Q <sub>avg</sub>	261 gpd/sf	
8 Surface loading @ Q <sub>pk</sub>	1,044 gpd/sf	
9 TCEQ min. detention time @ Q <sub>avg</sub>	6.15 hours	
10 TCEQ min. detention time @ Q <sub>pk</sub>	1.8 hours	
11 Detention time @ Q <sub>avg</sub>	10.3 hours	
12 Detention time @ Q <sub>pk</sub>	2.58 hours	
13 TCEQ maximum weir loading	20,000 gpd/ft	
14 Weir length	100.5 ft	
15 Weir loading at Q <sub>pk</sub>	8,356 gpd/ft	
16 Min RAS Flow	112 gpm	200 gpd/sf of clarifier
17 Max RAS Flow	223 gpm	400 gpd/sf of clarifier
18 WAS Flow	8,393 gpd	Assumes avg sludge loading of 15lbs/ft on rake arm
19 Required Torque for Drive Unit	3,840 lbs-ft	Assumes avg sludge loading of 15lbs/ft on rake arm
19A Required Torque for Drive Unit	0.56 HP	

### Phase II

### Chlorine Contact Chamber

1 TCEQ min. detention time	20 minutes
2 Volume required @ $Q_{pk}$	1,559 cf
3 Side water depth	15 ft
4 Width	14 ft
5 Length	16 ft
6 Number of tanks	1
7 Volume provided	3,360 cf
8 Detention time at $Q_{pk}$	43.11 minutes
9 Volume per degree (cf)	95.78
9a Volume per degree (cf) (CCB SWD)	89.80
10 Degrees of Digester	40
	<b>USE</b>
	<b>45 deg</b>
<b>Actual Volume</b>	4,041 cf
<b>Actual Length</b>	20 ft
<b>Detention time at <math>Q_{pk}</math></b>	51.85 minutes

### Air Requirements

1 TCEQ minimum aeration air requirements	2.2 lbs O <sub>2</sub> /lb BOD <sub>5</sub>
2 TCEQ minimum digester air requirements	20 SCFM / 1,000 cf of digester volume
3 Airflow Rate Correction Factor	0.91 Based on Air Diffuser Submergence (Table F.5 217.155(b)(2)(D))
4 WOTE	0.11 (0.0075*SWD in Aeration Basin)
5 Diffuser Type	<b>c</b> (Coarse or Fine)
6 SCFM/day/lb BOD <sub>5</sub>	579 SCFM Aeration Basin
7 SCFM / 1,000 cf	233 SCFM Digester Aeration
8 CC mixing, 2.5 scfm/lb	40 SCFM
9 Air lifts, 10%	85 SCFM
10 Total Air required	937 SCFM
11 Total Air required (max)	1,405 SCFM

### Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	<b>10</b> in
Length of Blower Header	<b>30</b> ft
Air Bridge Size	<b>8x10</b> in
Equivalent Circular Air Pipe	9.76 in
Length of Air Bridge	<b>110</b> ft
Air Diffuser Submergence	15 ft
Static Head on Air Diffusers	6.49 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.00 psi
Air Bridge Friction Losses (6" x 8")	0.00 psi
Air Drop Losses (2" air drops)	0.05 psi
10% Factor of Safety	0.70 psi
Total Differential Pressure Loss	7.75
Approximate Blower Power Required	39.2 HP

**Therefore ----- 2 blowers @1,000 SCFM with one as a standby**

**ENGINEERING DESIGN SUMMARY  
FOR  
WALLER COUNTY MUD NO 64  
WASTEWATER TREATMENT PLANT - 0.69 MGD - PHASE III**

**PURPOSE**

The purpose of this report is to present the basis of design and summary of unit sizing and hydraulic calculations for three 0.23 MGD Wastewater Treatment Plants that will bring the total plant capacity to 0.90 MGD. The Phase III WWTPs will accommodate 766 ESFC at 300 GPD/ESFC each. In total, the four bullseye WWTPs will accommodate 3,000 ESFC at 300 GPD/ESFC.

**INFLUENT QUALITY CHARACTERISTICS**

The influent wastewater quality characteristics used for design are estimates based on State Design criteria and are as follows:

<u>PARAMETER</u>	<u>CONCENTRATION</u> <u>FOR PHASE I</u>
BOD <sub>5</sub>	300 mg/L
TSS	250 mg/L
NH <sub>3</sub> -N	45 mg/l

**INFLUENT FLOW CHARACTERISTICS**

The plant processes and hydraulic design are based on the following flows:

**Phase II**

Average Daily Flow (Q <sub>avg</sub> )	230,000 gpd	160 gpm
Peak 2-hour Flow (Q <sub>pk</sub> )	920,000 gpd	639 gpm

**PROCESS DESIGN**

The sewage treatment plant has been designed to produce an effluent in compliance with permitted parameters of:

CBOD <sub>5</sub>	7 mg/L	
TSS	15 mg/L	
NH <sub>3</sub> -N	2 mg/L	
DO	4 mg/L	
Chlorine Residual	1 mg/L	after 20 minutes contact time

**ORGANIC LOADING**

**Influent Conditions**

**Phase III**

1 Average Daily Flow (Q <sub>avg</sub> )	230,000 gpd 160 gpm 0.36 cfs
2 Peak 2-hour Flow (Q <sub>pk</sub> )	920,000 gpd 639 gpm 1.42 cfs

**Influent (30-Day Average)**

1 BOD <sub>5</sub> (mg/L)	300 Influent concentration of wastewater strength
2 TSS (mg/L)	250
3 BOD <sub>5</sub> (lbs/day)	575 Organic Load

**Process Loadings**

1 MLSS (mg/L)	3,000
2 RASS (mg/L)	7,500
3 VSS/TSS	0.75

### Aeration

1 TCEQ maximum organic loading	35 lbs/day/1,000 cf
2 TCEQ required volume	16,429 cf
3 Side Water Depth	16.0 ft
4 Width	14.0 ft
5 Length	80 ft
6 Number of tanks	1
7 Aeration volume available	17,920 cf
8 Organic Loading, (lbs/day/1,000 cf)	32.09
9 F/M, lb BOD <sub>5</sub> / lb MLVSS	0.23
10 Hydraulic retention time (hr)	13.99
11 Solids retention time (days)	28.92
12 Total diameter of plant (ft)	63.00
13 Wall Thickness (ft)	1.50 ft
14 Surface area of outer ring (sf)	2,155.13
15 Volume of outer ring (cf)	34,482.12
16 Volume per degree (cf)	95.78
17 Degrees of Aeration basin	190
USE	190

### Digester

1 TCEQ minimum volume	20 cf/lb BOD <sub>5</sub>
2 TCEQ minimum detention time	40 days
3 Digester solids	30,000 mg/L
4 Volatile solids Reduction	44% Metcalf and Eddy (4th Ed.)
5 MLVSS/MLSS ratio	0.75
6 Total daily solids generation	521 lb/d
7 Total solids after digestion	349 lb/d
8 TCEQ required volume (Loading)	10,413 cf
9 TCEQ required volume (Detention time)	7,456 cf
10 Side water depth	16.00 ft
11 Width	14.0 ft
12 Length	26 ft
13 Number of tanks	2
14 Digester volume available	11,648 cf
15 Digester loading,	22 cf/lb BOD <sub>5</sub>
16 Digester sludge retention time	62.49 days
17 Volume per degree (cf)	95.78
18 Degrees of Digester	127
USE	130

### Clarifier

1 TCEQ max. surface loading	1,200 gpd/sf	
2 TCEQ required surface area	767 sf	
3 Diameter	32 ft	
4 Side water depth	15.00 ft	
5 Number of units	1	
6 Area	804 sf	
7 Surface loading @ Q <sub>avg</sub>	286 gpd/sf	
8 Surface loading @ Q <sub>pk</sub>	1,144 gpd/sf	
9 TCEQ min. detention time @ Q <sub>avg</sub>	6.15 hours	
10 TCEQ min. detention time @ Q <sub>pk</sub>	1.8 hours	
11 Detention time @ Q <sub>avg</sub>	9.4 hours	
12 Detention time @ Q <sub>pk</sub>	2.35 hours	
13 TCEQ maximum weir loading	20,000 gpd/ft	
14 Weir length	100.5 ft	
15 Weir loading at Q <sub>pk</sub>	9,151 gpd/ft	
16 Min RAS Flow	112 gpm	200 gpd/sf of clarifier
17 Max RAS Flow	223 gpm	400 gpd/sf of clarifier
18 WAS Flow	9,193 gpd	Assumes avg sludge loading of 15lbs/ft on rake arm
19 Required Torque for Drive Unit	3,840 lbs-ft	Assumes avg sludge loading of 15lbs/ft on rake arm
19A Required Torque for Drive Unit	0.56 HP	

### Phase III



### Chlorine Contact Chamber

1 TCEQ min. detention time	20 minutes
2 Volume required @ $Q_{pk}$	1,709 cf
3 Side water depth	15 ft
4 Width	14 ft
5 Length	16 ft
6 Number of tanks	1
7 Volume provided	3,360 cf
8 Detention time at $Q_{pk}$	39.33 minutes
9 Volume per degree (cf)	95.78
9a Volume per degree (cf) (CCB SWD)	89.80
10 Degrees of Digester	40
	<b>USE 40 deg</b>
<b>Actual Volume</b>	3,592 cf
<b>Actual Length</b>	18 ft
<b>Detention time at <math>Q_{pk}</math></b>	42.05 minutes

### Air Requirements

1 TCEQ minimum aeration air requirements	2.2 lbs O <sub>2</sub> /lb BOD <sub>5</sub>
2 TCEQ minimum digester air requirements	20 SCFM / 1,000 cf of digester volume
3 Airflow Rate Correction Factor	0.91 Based on Air Diffuser Submergence (Table F.5 217.155(b)(2)(D))
4 WOTE	0.11 (0.0075*SWD in Aeration Basin)
5 Diffuser Type	<b>c</b> (Coarse or Fine)
6 SCFM/day/lb BOD <sub>5</sub>	634 SCFM Aeration Basin
7 SCFM / 1,000 cf	233 SCFM Digester Aeration
8 CC mixing, 2.5 scfm/lf	40 SCFM
9 Air lifts, 10%	91 SCFM
10 Total Air required	997 SCFM
11 Total Air required (max)	1,496 SCFM

### Blower Requirements

Blower Type (CF or PD)	PD Positive Displacement
Blower Header Diameter	<b>10</b> in
Length of Blower Header	<b>30</b> ft
Air Bridge Size	<b>8x10</b> in
Equivalent Circular Air Pipe	9.76 in
Length of Air Bridge	<b>110</b> ft
Air Diffuser Submergence	15 ft
Static Head on Air Diffusers	6.49 psi
Intake Losses	0.50 psi
Blower Header Friction Losses	0.00 psi
Air Bridge Friction Losses (6" x 8")	0.00 psi
Air Drop Losses (2" air drops)	0.05 psi
10% Factor of Safety	0.70 psi
Total Differential Pressure Loss	7.75
Approximate Blower Power Required	41.7 HP

**Therefore ----- 2 blowers @1,000 SCFM with one as a standby per bullseye**

## **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 – 0.105 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. 3 - 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. A larger aeration basin will be constructed in Phase 2 that will replace the temporary steel aeration basin. 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

Three blowers will be installed with the Phase 1. 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)

### **Phase 2 – 0.21 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. 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 2 will have one aeration basin. Three additional aeration basins 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 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 2. 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 3 – 0.90 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. 4 - 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 3 will have four 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**

Phase 3 will have four 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 dual gaseous chlorination disinfection system will be installed, capable of automatically changing from one cylinder to another per *30 TAC 217.271(b)*.

D. EQUIPMENT DUPLICITY

1. BLOWERS

Five blowers will be installed with the Phase 3. 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.

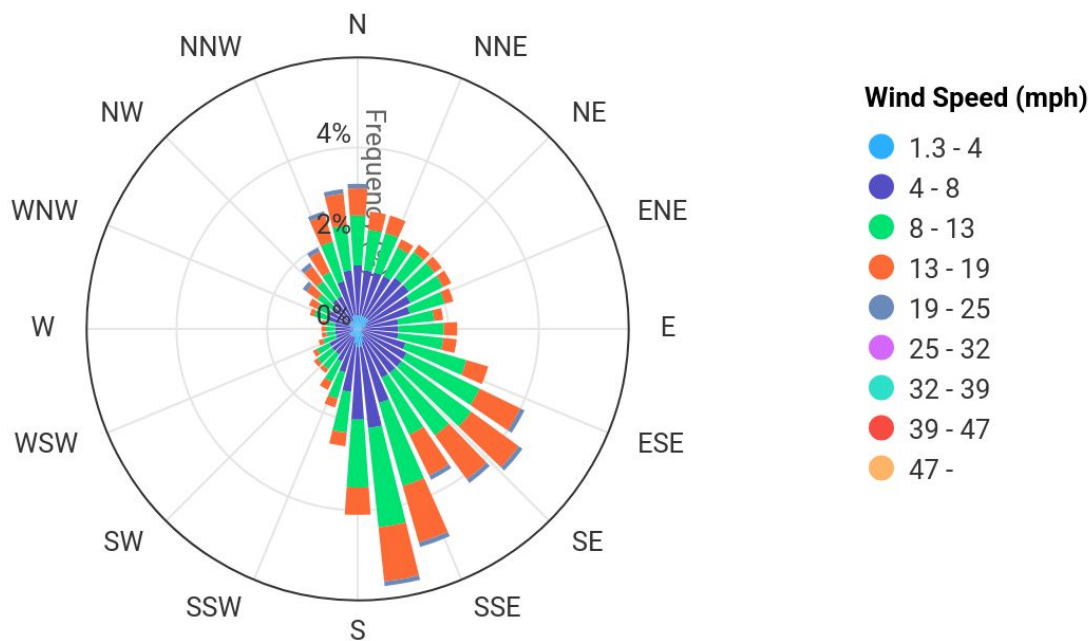


## **Attachment 9 – Wind Rose**

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

# HOUSTON INTERCONTINENTAL AP (TX) Wind Rose

June 01, 1969 - January 22, 2025  
Sub-Interval: January 1 - December 31, 0 - 24



Click and drag to zoom

## Leah Whallon

---

**From:** Susy Vallejo, E.I.T. <svallejo@ehra.team>  
**Sent:** Tuesday, April 1, 2025 7:17 AM  
**To:** Leah Whallon; Krystal Regner, P.E., ENV SP  
**Subject:** RE: Application for Proposed Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP  
**Attachments:** Municipal Discharge New Spanish NORI.docx; WC 64 - TCEQ Administrative Report.pdf; WC 64 TPDES\_NOD Response Letter.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good morning, Leah,

Please see the attached comment response log, updated page 5 of 17 of Administrative Report and Spanish NORI for the above referenced project. Please let me know if any additional documents are needed to declare application administratively complete, or if you have any 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:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>  
**Sent:** Monday, March 31, 2025 4:24 PM  
**To:** Krystal Regner, P.E., ENV SP <kregner@ehra.team>  
**Cc:** Susy Vallejo, E.I.T. <svallejo@ehra.team>  
**Subject:** FW: Application for Proposed Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

Good Afternoon,

Please see the attached Notice of Deficiency letter dated March 31, 2025 requesting additional information needed to declare the application administratively complete. Please send the complete response by April 14, 2025.

Please let me know if you have any questions.

Thank you,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at  
[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)





April 01, 2025

Leah Whallon  
Applications Review and Processing Team (MC-148)  
Water Quality Division  
Texas Commission on Environmental Quality

Re: Response to NOD for Permit Renewal No. WQ0016761001 (EPA ID TX0147664)  
To be Issued to Waller County Municipal Utility District No. 64  
CN606367282, RN112179742  
EHRA Project No. 241-076-21

Dear Ms. Whallon:

We received your Notice of Deficiency Letter dated March 31, 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:** Administrative Report 1.0, Section 6: No response was listed for this item. Please provide a revised page to include the information for the billing contact.

**Response No. 1:**

**Comment No. 2:** The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

**Response No. 2:** Please note changes in **red**.

APPLICATION: Sagebrush 1 LLC, 1333 West Loop South, Suite 910, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016761001 (EPA I.D. No. TX0147664) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 900,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.82 miles northwest of the intersection of Farm-to-Market Road 1098 and Farm-to-Market Road 1488, near the city of Hempstead, in Waller County Texas, 77445. The discharge route will be from the plant site to an unnamed tributary, thence to Ponds Creek **Segment 1202P**, thence to Clear Creek **Segment 1202Q**, thence to Brazos River below Navasota River, **thence to Brazos River Tidal** (pending RWA). TCEQ received this application March 21, 2025. The permit application will be available for viewing and copying at John B. Coleman Library, 130 L.W. Minor Street, Prairie View, in Waller 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 website:

<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=-96.0032,30.1262&level=18>

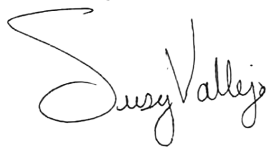
Further information may also be obtained from Sagebrush 1 LLC at the address stated above or by calling Ms. Krystal Regner, P.E., EHRA Engineering, at 713.784.4500.

**Comment No. 3:** 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. 3:** Spanish NORI has been included as part of Notice of Deficiency response letter.

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](mailto:svallejo@ehra.team) or [kregner@ehra.team](mailto:kregner@ehra.team), respectively.

Sincerely,



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

Enclosures: Spanish NORI and Page 5 of 17 of Administrative Report

cc: Krystal Regner, P.E. – Firm  
Colton Cary, P.E. – Firm

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, Texas 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: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

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

Prefix: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

### A. Individual Publishing the Notices

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

# 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. WQ0016761001

**SOLICITUD.** Sagebrush 1 LLC ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016761001 (EPA I.D. No. TX0147664) 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 900,00 por día. La planta está ubicada aproximadamente 0.82 millas noroeste de la intersección de Farm-to-Market Road 1098 y Farm-to-Market 1488, Ciudad de Hempstead en el Condado de Waller, Texas. La ruta de descarga es del sitio de la planta a un dique sin nombre, de ahí al Segmento 1202P de Ponds Creek, de ahí al Segmento 1201Q de Clear Creek, de ahí al Río Brazos bajo el Río Navasota, de ahí a la Marea del Río Brazos. La TCEQ recibió esta solicitud el 21 de marzo de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la Biblioteca John B. Coleman, 130 L.W. Minor Street, Prairie View, en el Condado de Waller antes de la fecha de publicación de este aviso en el periódico. 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://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications> Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.0032,30.1262&level=18>

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

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



### **OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.**

Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todos 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 por qué 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 de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se 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.

**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 Sagebrush 1 LLC a la dirección indicada arriba o llamando a la Sra. Krystal Regner, P.E., Gerente de Proyecto, EHRA Engineering al 713.784.4500.

Fecha de emisión \_\_\_\_\_ *[Date notice issued]*

## Leah Whallon

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**From:** Susy Vallejo, E.I.T. <svallejo@ehra.team>  
**Sent:** Tuesday, April 1, 2025 7:17 AM  
**To:** Leah Whallon; Krystal Regner, P.E., ENV SP  
**Subject:** RE: Application for Proposed Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP  
**Attachments:** Municipal Discharge New Spanish NORI.docx; WC 64 - TCEQ Administrative Report.pdf; WC 64 TPDES\_NOD Response Letter.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good morning, Leah,

Please see the attached comment response log, updated page 5 of 17 of Administrative Report and Spanish NORI for the above referenced project. Please let me know if any additional documents are needed to declare application administratively complete, or if you have any 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

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**From:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>  
**Sent:** Monday, March 31, 2025 4:24 PM  
**To:** Krystal Regner, P.E., ENV SP <kregner@ehra.team>  
**Cc:** Susy Vallejo, E.I.T. <svallejo@ehra.team>  
**Subject:** FW: Application for Proposed Permit No. WQ0016761001; Sagebrush 1 LLC; Waller County MUD 64 WWTP

Good Afternoon,

Please see the attached Notice of Deficiency letter dated March 31, 2025 requesting additional information needed to declare the application administratively complete. Please send the complete response by April 14, 2025.

Please let me know if you have any questions.

Thank you,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at  
[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)



April 01, 2025

Leah Whallon  
Applications Review and Processing Team (MC-148)  
Water Quality Division  
Texas Commission on Environmental Quality

Re: Response to NOD for Permit Renewal No. WQ0016761001 (EPA ID TX0147664)  
To be Issued to Waller County Municipal Utility District No. 64  
CN606367282, RN112179742  
EHRA Project No. 241-076-21

Dear Ms. Whallon:

We received your Notice of Deficiency Letter dated March 31, 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:** Administrative Report 1.0, Section 6: No response was listed for this item. Please provide a revised page to include the information for the billing contact.

**Response No. 1:**

**Comment No. 2:** The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

**Response No. 2:** Please note changes in **red**.

APPLICATION: Sagebrush 1 LLC, 1333 West Loop South, Suite 910, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016761001 (EPA I.D. No. TX0147664) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 900,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.82 miles northwest of the intersection of Farm-to-Market Road 1098 and Farm-to-Market Road 1488, near the city of Hempstead, in Waller County Texas, 77445. The discharge route will be from the plant site to an unnamed tributary, thence to Ponds Creek **Segment 1202P**, thence to Clear Creek **Segment 1202Q**, thence to Brazos River below Navasota River, **thence to Brazos River Tidal** (pending RWA). TCEQ received this application March 21, 2025. The permit application will be available for viewing and copying at John B. Coleman Library, 130 L.W. Minor Street, Prairie View, in Waller 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 website:

<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=-96.0032,30.1262&level=18>

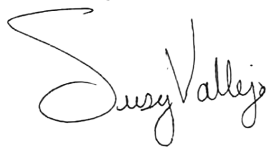
Further information may also be obtained from Sagebrush 1 LLC at the address stated above or by calling Ms. Krystal Regner, P.E., EHRA Engineering, at 713.784.4500.

**Comment No. 3:** 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. 3:** Spanish NORI has been included as part of Notice of Deficiency response letter.

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](mailto:svallejo@ehra.team) or [kregner@ehra.team](mailto:kregner@ehra.team), respectively.

Sincerely,



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

Enclosures: Spanish NORI and Page 5 of 17 of Administrative Report

cc: Krystal Regner, P.E. – Firm  
Colton Cary, P.E. – Firm

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, Texas 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: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

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

Prefix: Mr. Last Name, First Name: Rodgers, Jim  
Title: Click to enter text. Credential: Click to enter text.  
Organization Name: Crespoint Partners, LLC  
Mailing Address: 16231 Villa Fontana Way City, State, Zip Code: Houston, TX 77068-3745  
Phone No.: 713.494.4304 E-mail Address: rodgersjim@crestpointpartnersllc.com

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

### A. Individual Publishing the Notices

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

# 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. WQ0016761001

**SOLICITUD.** Sagebrush 1 LLC ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016761001 (EPA I.D. No. TX0147664) 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 900,00 por día. La planta está ubicada aproximadamente 0.82 millas noroeste de la intersección de Farm-to-Market Road 1098 y Farm-to-Market 1488, Ciudad de Hempstead en el Condado de Waller, Texas. La ruta de descarga es del sitio de la planta a un diche sin nombre, de ahí al Segmento 1202P de Ponds Creek, de ahí al Segmento 1201Q de Clear Creek, de ahí al Río Brazos bajo el Río Navasota, de ahí a la Marea del Río Brazos. La TCEQ recibió esta solicitud el 21 de marzo de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la Biblioteca John B. Coleman, 130 L.W. Minor Street, Prairie View, en el Condado de Waller antes de la fecha de publicación de este aviso en el periódico. 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://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications> Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.0032,30.1262&level=18>

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

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



### **OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.**

Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todos 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 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 de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se 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.

**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 Sagebrush 1 LLC a la dirección indicada arriba o llamando a la Sra. Krystal Regner, P.E., Gerente de Proyecto, EHRA Engineering al 713.784.4500.

Fecha de emisión \_\_\_\_\_ *[Date notice issued]*