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

The Harris County Municipal Utility District No. 568 (2. Enter Customer Number here (i.e., CN6########)) proposes to operate the Harris County MUD No. 568 Wastewater Treatment Plant (5. Enter Regulated Entity Number here (i.e., RN1########)), an activated sludge process operating in the complete mixed mode. The facility will be located at approximately 0.55 miles southeast of the intersection between Beamer Rd. and FM 2351, in Friendswood, Harris County, Texas 77546. This application is for a new discharge at a daily average flow of 450,000 gallons per day.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia Coli. Domestic wastewater will be treated by an activated sludge process plant

and the treatment units include a bar screen, aeration basins, a clarifier, sludge digesters, and a chlorine contact basin.

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

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

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

El Distrito Municipal de Servicios Publicos No. 568 del Condado de Harris (2. Introduzca el número de cliente aquí (es decir, CN6########).) propone operar la planta de tratamiento de aguas residuales MUD No. 568 del Condado de Harris 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), un proceso de lodos activados que opera en modo mixto completo. La instalación estará ubicada en aproximadamente 0.55 millas al sureste de la interseccion entre Beamer Rd. y FM 568, en Friendswood, Condado de Harris, Texas 77546. Esta solicitud es para una nueva descarga con un caudal promedio diario de 450,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (DOCB5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH_3-N) y Escherichia coli.. Las aguas residuales domésticas. están tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán criba de barras, balsas de aireación, clarificadores finales, digestores de lodos y camara de contacto de cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0016852001

APPLICATION. Harris County Municipal Utility District No. 568, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016852001 (EPA I.D. No. TX0148237) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 450,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.55 mile southeast of the intersection of Beamer Road and Farm-to-Market Road 2351, near the city of Friendswood, in Harris County, Texas 77546. The discharge route will be from the plant site to an unnamed tributary; thence to Turkey Creek; thence to Clear Creek Above Tidal. TCEQ received this application on July 28, 2025. The permit application will be available for viewing and copying at Bracewell Neighborhood Library, Reference Desk, 9002 Kingspoint Road, Houston, in Harris County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.17321,29.553155&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Harris County Municipal Utility District No. 568 at the address stated above or by calling Mrs. Ashley Broughton, P.E., Senior Project Manager, LJA Engineering, Inc., at 713-380-4431.

Issuance Date: August 13, 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. WQ0016852001

SOLICITUD. Harris County Municipal Utility District No. 568, 3200 Southwest Freeway, Suite 2600, Houston, Texas 77027, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016852001 (EPA I.D. No. TX0148237) 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 450,000 galones por día. La planta estará ubicada aproximadamente 0.55 millas al sureste de la intersección de Beamer Road y Farm-to-Market Road 2351, cerca de la ciudad de Friendswood en el Condado de Harris, Texas 77546. La ruta de descarga estará del sitio de la planta a un afluente sin nombre; de allí a Turkey Creek; de allí a Clear Creek por encima de la marea. La TCEQ recibió esta solicitud el 28 de Julio del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la mesa de referencias de la biblioteca Bracewell Neighborhood, ubicada en 9002 Kingspoint Road, Houston, in Harris County, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.17321,29.553155&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas

correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Harris County Municipal Utility District No. 568 a la dirección indicada arriba o llamando a Ashley Broughton, P.E. al 713-380-4431.

Fecha de emisión: 13 de agosto de 2025

PERMIT APPLICATION

WASTEWATER TREATMENT PLANT

TO SERVE

HARRIS COUNTY MUD NO.568

HARRIS COUNTY, TEXAS

LJA Job No. 4013-0001

July 2025

Prepared by:
LJA Engineering, Inc
3600 W. Sam Houston Parkway S., Suite 600
Houston, TX 77042
713-953-5200
FRN F-1386

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Harris County Municipal Utility District No. 568

PERMIT NUMBER (If new, leave blank): WQ00 N/A

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: 776186, 776187

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☐ Active ☒ Inactive

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

☒ TPDES Permit

☐ TLAP

☐ TPDES Permit with TLAP component

☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

☒ New

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

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

f. For existing permits:

Permit Number: WQ00 N/A

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?

Harris County Municipal Utility District No. 568

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

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

CN: Click to enter text.

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

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

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

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

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

N/A

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

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

CN: N/A

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: Mayfield, Eric

Title: President 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: Broughton, Ashley

Title: Senior Project Manager Credential: P.E.

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W. Sam Houston Parkway S., Ste 600 City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 E-mail Address: abroughton@lja.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms Last Name, First Name: Velez, Sarah

Title: Assistant Project Manager Credential: P.E.

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W. Sam Houston Parkway S., Ste 600 City, State, Zip Code: Houston, TX 77042

Phone No.: 713-341-8093 E-mail Address: svelez@lja.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Broughton, Ashley

Title: Senior Project Manager Credential: P.E

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W. Sam Houston Parkway S., Ste 600 City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 E-mail Address: abroughton@lja.com

B. Prefix: Ms. Last Name, First Name: Velez, Sarah

Title: Assistant Project Manager Credential: P.E

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W. Sam Houston Parkway S., Ste 600 City, State, Zip Code: Houston, TX 77042

Phone No.: 713-341-8093 E-mail Address: svelez@lja.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Ms. Last Name, First Name: Stripling, Luly

Title: Bookeeper Credential: Click to enter text.

Organization Name: District Data Services

Mailing Address: District Data Services PO Box 79349 City, State, Zip Code: Houston, TX 77279

Phone No.: 713-932-7908 E-mail Address: Luly@districtdataservices.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: Booth, Robert

Title: Senior Project Manager Credential: P.E

Organization Name: LJA Engineering,Inc.

Mailing Address: 1904 West Grand Parkway North, Suite 100 City, State, Zip Code: Katy, TX 77449

Phone No.: 713-953-5289 E-mail Address: rbooth@lja.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Mavarez, Cristina

Title: Graduate Engineer Credential: Click to enter text.

Organization Name: LJA Engineering, Inc.

Mailing Address: 3600 W. Sam Houston Parkway S., Ste 600 City, State, Zip Code: Houston, TX 77042

Phone No.: 281-800-4364 E-mail Address: cmavarez@lja.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Broughton, Ashley

Title: Senior Project Manager Credential: P.E.

Organization Name: LJA Engineering, Inc

Mailing Address: 3600 W. Sam Houston Parkway S., Ste 600 City, State, Zip Code: Houston, TX 77042

Phone No.: 713-380-4431 E-mail Address: abroughton@lja.com

D. Public Viewing Information

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

Public building name: Bracewell Neighborhood Library

Location within the building: Reference Desk

Physical Address of Building: 9002 Kingspoint Rd., Houston TX 77075

City: Houston County: Harris

Contact (Last Name, First Name): Mayne, Mercedes

Phone No.: 832-393-2580 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. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an 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: 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** Click to enter text.

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):

Harris County Municipal Utility District No. 568

C. Owner of treatment facility: Harris County Municipal Utility District No. 568 WWTP

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: Harris County Municipal Utility District No. 568 WWTP

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

Organization Name: Harris County Municipal Utility District No. 568 WWTP

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.

E. Owner of effluent disposal site:

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

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

Organization Name: Click to 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: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☒ No

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

Approximately 0.55 miles southeast of the intersection of Beamer Rd. and FM 2351 in Harris County, TX 77546

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:

Through a storm sewer, thence to an unnamed creek, thence to Turkey Creek in Segment No. 1102D thence to Clear Creek in Segment No. 1101 of the San Jacinto-Brazos Coastal Basin.

City nearest the outfall(s):Friendswood

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

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: N/A

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: Click to enter text.

Applicant: Harris County Municipal Utility District No. 568

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): Eric Mayfield

Signatory title: President

Signature: _____ Date: 6/24/25

(Use blue ink)

Subscribed and Sworn to before me by the said Eric Mayfield

on this 24th day of June, 2025.

My commission expires on the 14th day of June, 2027.

_____

Notary Public

[SEAL]

Harris

County, Texas

CARNELL EMANUEL
Notary Public, State of Texas
Comm. Expires 06-14-2027
Notary ID 132051786

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 in which format the landowners list is submitted:

☒ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Harris 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: 9

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:** Click to enter text.

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: Click to enter text.

   Physical Address of Project or Site: Click to enter text.

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

Core Data Form (TCEQ Form No. 10400) ☒ 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 Cross Reference List ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Landowners Labels or USB Drive attached ☐ N/A ☒ Yes
(See instructions for landowner requirements)

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)

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.12

2-Hr Peak Flow (MGD): 0.48

Estimated construction start date: September 2026

Estimated waste disposal start date: June 2027

B. Interim II Phase

Design Flow (MGD): 0.225

2-Hr Peak Flow (MGD): 0.90

Estimated construction start date: October 2027

Estimated waste disposal start date: July 2028

C. Final Phase

Design Flow (MGD): 0.45

2-Hr Peak Flow (MGD): 1.8

Estimated construction start date: February 2031

Estimated waste disposal start date: November 2031

D. Current Operating Phase

Provide the startup date of the facility: Plant not yet in operation

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

See Attachment 10

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)
See Attachment 11		

C. Process Flow Diagram

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

Attachment: 12

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

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

- Latitude: 29.553155
- Longitude: -95.173216

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

- Latitude: Click to enter text.
- Longitude: Click to enter text.

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: 13

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

The plant will serve HCMUD No. 568; Clearwater subdivision

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
HCMUD 568	HCMUD 568	**Publicly Owned**	1680
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☐ Yes ☒ No

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

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

Click to enter text.

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.

Buffer zone requirements are met by property ownership and restrictive easements when the plant is constructed.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

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_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: To be selected by Owner

Facility Operator's License Classification and Level: TBD

Facility Operator's License Number: TBD

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Handler or Preparer	Bulk		Class B: PSRP Aerobic Digestion	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: TBD

TCEQ permit or registration number: TBD

County where disposal site is located: TBD

E. Transportation method

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

Name of the hauler: TBD

Hauler registration number: TBD

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

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 $1x10^{-7}$ 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 55)

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

- The laboratory is an in-house laboratory and is:
  - 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: Click to enter text.

Title: Click to enter text.

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

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.

The proposed wastewater treatment plant is needed for a residential development.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☒ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: Houston

If yes, attach correspondence from the city.

Attachment: 14

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

Attachment: Click to enter text.

2. *Utility CCN areas*

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

☐ Yes ☒ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☒ Yes ☐ No

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

Attachment: 15

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: 16

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☒ No

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

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

A. Current organic loading

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

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

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

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient	0.45	300
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	0.45	
AVERAGE BOD_5 from all sources		300

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: Click to enter text.

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: 17

Section 5. Facility Site (Instructions Page 60)

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.

Attachment 18- FEMA Firm No. 48201C1070M dated 01/06/17

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: 19

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

A. Beneficial use authorization

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

☐ Yes ☒ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: 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 61)

Attach a solids management plan to the application.

Attachment: 20

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

- Treatment units and processes dimensions and capacities
- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow

- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

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

☐ Yes ☒ No

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

Owner of the drinking water supply: 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 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

The discharge point will be through a storm sewer, thence to an unnamed creek, thence to Turkey Creek in Segment No. 1102D thence to Clear Creek in Segment No. 1101 of the San Jacinto-Brazos Coastal Basin

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.

The creek is generally dry

Date and time of observation: 08/13/2021

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

☐ Oil field activities
☐ Urban runoff
☐ Upstream discharges
☒ Agricultural runoff
☐ Septic tanks
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☒ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 66)

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

Stream name: Click to enter text.

Location: Click to enter text.

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

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

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

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

Click to enter text.

Stream transects

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

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.			
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.			

Section 3. Summarize Measurements (Instructions Page 66)

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

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

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

Section 2. Land Application Site(s) (Instructions Page 68)

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

Table 3.0(1) – Land Application Site Crops

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

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

Table 3.0(2) – Storage and Evaporation Ponds

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

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

Attachment: Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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

Click to enter text.

Section 5. Annual Cropping Plan (Instructions Page 68)

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

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

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

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

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

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

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

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☐ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

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

Attachment: Click to enter text.

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Click to enter text.

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

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

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

Click to enter text.

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

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

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

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

Void ratio of soil in the beds: Click to enter text.

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

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

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

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

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

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

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

Area of trench, in square feet: Click to enter text.

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

Number of beds: Click to enter text.

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

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

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

Section 1. Administrative Information (Instructions Page 75)

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

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

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

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

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

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

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

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

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

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

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

D. Dosing information

Number of doses per day: Click to enter text.

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

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

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

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

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

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

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

Attachment: Click to enter text.

D. Soil sampling/testing

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

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

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

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

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

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

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

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

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

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 90)

A. Substantial modifications

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

☐ Yes ☐ No

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

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 90)

A. General information

Company Name: N/A

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 *i*nstructions?

☐ 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.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

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

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.

2. Receiving Formation Name of Injection Zone: Click to enter text.

3. Well/Trench Total Depth: Click to enter text.

4. Surface Elevation: Click to enter text.

5. Depth to Ground Water: Click to enter text.

6. Injection Zone Depth: Click to enter text.

7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

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

Name: Click to enter text.

Thickness: Click to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.

13. Maximum injection Rate/Volume/Pressure: Click to enter text.

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.

17. Sampling frequency: Click to enter text.

18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

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

Class V Injection Well Designations

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

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number:	582EA000677666
Date:	07/23/2025 03:22 PM
Payment Method:	CC - Authorization 0000023106
ePay Actor:	CRISTINA MAVAREZ
Actor Email:	cmavarez@lja.com
IP:	209.133.67.114
TCEQ Amount:	$1,250.00
Texas.gov Fee:	$28.38
Texas.gov Price:	$1,278.38*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name:	MARGARET GILLENTINE
Company:	LJA ENGINEERING INC
Address:	3600 W SAM HOUSTON PKWY S, HOUSTON, TX 77042
Phone:	713-953-5100

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
776186	WW PERMIT - FACILITY WITH FLOW >= .25 & < .50 MGD - NEW AND MAJOR AMENDMENTS		$1,200.00
776187	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$1,250.00

ePay Again | Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	776186
Trace Number:	582EA000677666
Date:	07/23/2025 03:22 PM
Payment Method:	CC - Authorization 0000023106
Voucher Amount:	$1,200.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= .25 & < .50 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor:	CRISTINA MAVAREZ

Payment Contact Information

Name:	MARGARET GILLENTINE
Company:	LJA ENGINEERING INC
Address:	3600 W SAM HOUSTON PKWY S, HOUSTON, TX 77042
Phone:	713-953-5100

Site Information

Site Name:	HARRIS COUNTY MUD NO 568 WWTP
Site Location:	APPROX 0.55 MILES SE OF THE INTERSECTION OF BEAMER RD AND FM 2351 77546

Customer Information

Customer Name:	HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO 568
Customer Address:	3200 SOUTHWEST FREEWAY, HOUSTON, TX 77027

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	776187
Trace Number:	582EA000677666
Date:	07/23/2025 03:22 PM
Payment Method:	CC - Authorization 0000023106
Voucher Amount:	$50.00
Fee Type:	30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor:	CRISTINA MAVAREZ

Payment Contact Information

Name:	MARGARET GILLENTINE
Company:	LJA ENGINEERING INC
Address:	3600 W SAM HOUSTON PKWY S, HOUSTON, TX 77042
Phone:	713-953-5100

TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

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

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

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

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

SECTION II: Customer Information

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

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*) *If new Customer, enter previous Customer below:*

Harris County Municipal Utility District No. 568

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited

Government: ☐ City ☒ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: MUD

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☒ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

3200 Southwest Freeway, Suite 2600

City	State	ZIP	ZIP + 4
Houston	TX	77027	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(713) 860-6491		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (*Enter name of the site where the regulated action is taking place.*)

Harris County Municipal Utility District No. 568

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

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Approximately 0.55 miles southeast of the intersection of Beamer Rd. and FM 2351 in Harris County, TX 77546

26. Nearest City	**State**	**Nearest ZIP Code**
Friendswood	TX	77546

27. Latitude (N) In Decimal:	29.553155	**28. Longitude (W) In Decimal:**	-95.173216

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	33	11.4	95	10	23.6

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Treatment of sewage

34. Mailing Address:							
	City		**State**		**ZIP**		**ZIP + 4**
35. E-Mail Address:							

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

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

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

SECTION IV: Preparer Information

40. Name:	Cristina Mavarez	**41. Title:**	Graduate Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281) 800-4364		( ) -	cmavarez@lja.com

SECTION V: Authorized Signature

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

Company:	LJA Engineering, Inc	**Job Title:**	Assistant Project Manager
Name *(In Print):*	Sarah Velez	**Phone:**	(713) 341- **8093**
Signature:	Sarah Velez	**Date:**	07/23/25

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

The Harris County Municipal Utility District No. 568 (2. Enter Customer Number here (i.e., CN6########)) proposes to operate the Harris County MUD No. 568 Wastewater Treatment Plant (5. Enter Regulated Entity Number here (i.e., RN1########)), an activated sludge process operating in the complete mixed mode. The facility will be located at approximately 0.55 miles southeast of the intersection between Beamer Rd. and FM 2351, in Friendswood, Harris County, Texas 77546. This application is for a new discharge at a daily average flow of 4,500,00 gallons per day. . *<<For TLAP applications include the following sentence, otherwise delete:>>* This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia Coli. Domestic wastewater will be treated by an activated sludge process plant

and the treatment units include a bar screen, aeration basins, a clarifier, sludge digesters, and a chlorine contact basin.

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

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

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

El Distrito Municipal de Servicios Publicos No. 568 del Condado de Harris (2. Introduzca el número de cliente aquí (es decir, CN6########).) propone operar la planta de tratamiento de aguas residuales MUD No. 568 del Condado de Harris 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), un proceso de lodos activados que opera en modo mixto completo. La instalación estará ubicada en aproximadamente 0.55 millas al sureste de la interseccion entre Beamer Rd. y FM 568, en Friendswood, Condado de Harris, Texas 77546. Esta solicitud es para una nueva descarga con un caudal promedio diario de 4,500,000 galones por día. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (DOCB5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH_3-N) y Escherichia coli.. Las aguas residuales domésticas. están tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluirán criba de barras, balsas de aireación, clarificadores finales, digestores de lodos y camara de contacto de cloro.

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☒ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

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

☒ Located within any of the following geographical locations:

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

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

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

Section 3. 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.

Construction of a wastewater treatment for future residential development

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.

Houston

(City)

Harris

(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

23.1%

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

57,475

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

4.8% - Black or African American, 15.1% - Hispanic/Latino

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

(e) Languages commonly spoken in area by percentage

English 87.3%, Spanish 6.8%

(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?

- [x] 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
- [x] Public Place (specify) Bracewell Neighborhood Library

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?

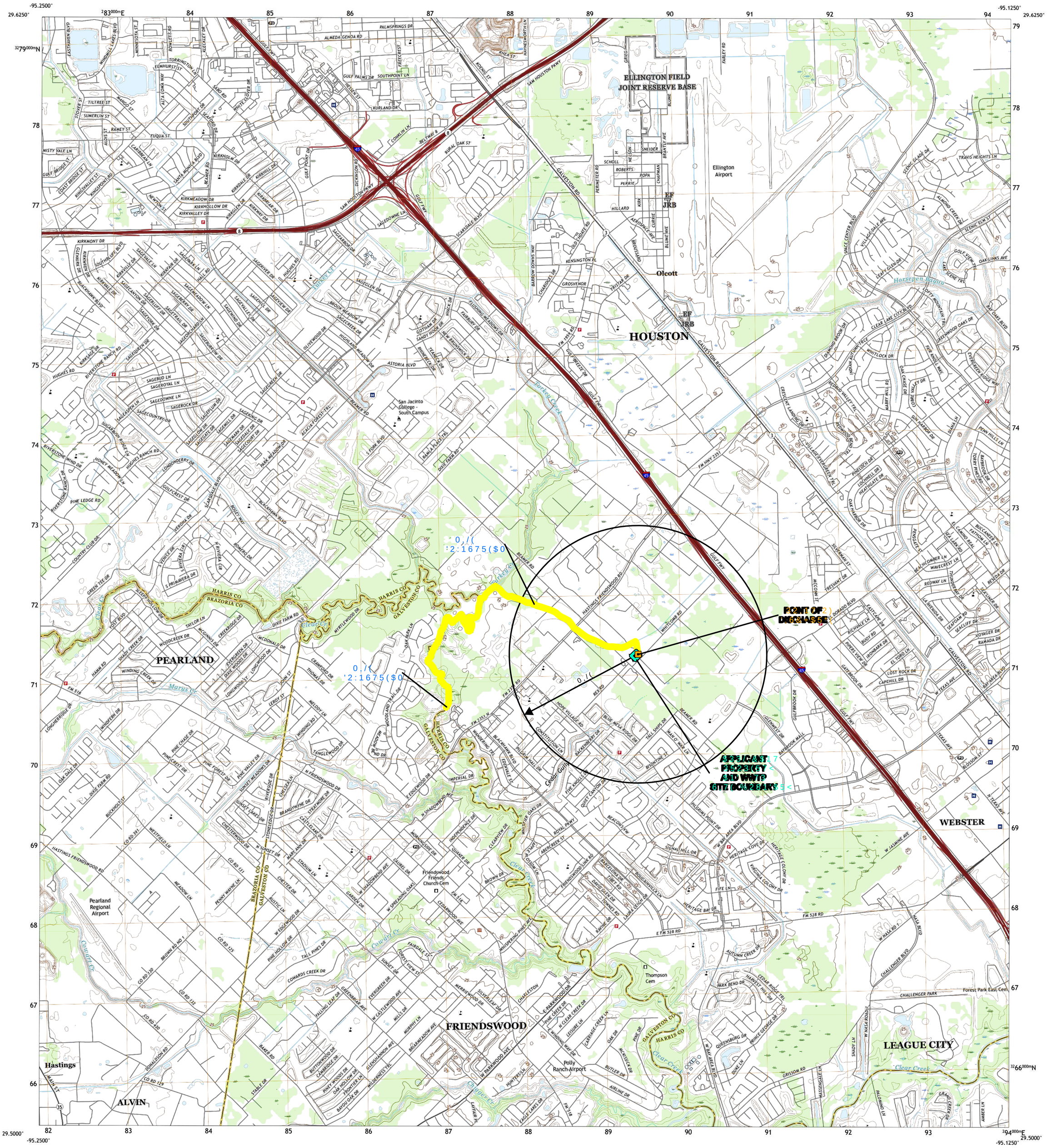
- [x] Publish in alternative language newspaper
- [ ] Posted on Commissioner's Integrated Database Website
- [ ] Mailed by TCEQ's Office of the Chief Clerk
- [ ] Other (specify)

USGS
science for a changing world

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

The National Map
US Topo

FRIENDSWOOD 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 15R

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, 2010
Boundaries.....Multiple sources; see metadata file 2019 - 2021

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

MN
GN
2°16' 40 MILS
1°5' 19 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
TN
Grid Zone Designation 15R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Park Place
2 Pasadena
3 La Porte
4 Pearland
5 League City
6 Manvel
7 Algoa
8 Dickinson
ADJOINING QUADRANGLES

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

NSN. 7643016396224
NGA REF NO. USGSX24K76678

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LJA
3600 W Sam Houston Parkway S Suite 600
Houston, Texas 77042
Phone 713.953.5200
LJA.com

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FRIENDSWOOD, TX
2022

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LJA
3600 W Sam Houston Parkway S Suite 600
Houston, Texas 77042
Phone 713.953.5200
LJA.com

BEAMER PARTNERS, LP
14738 RIVER FOREST DR
HOUSTON, TX 77079

SEWART SUPPLY INC
PO DRAWER L
MORGAN CITY, LA 70381

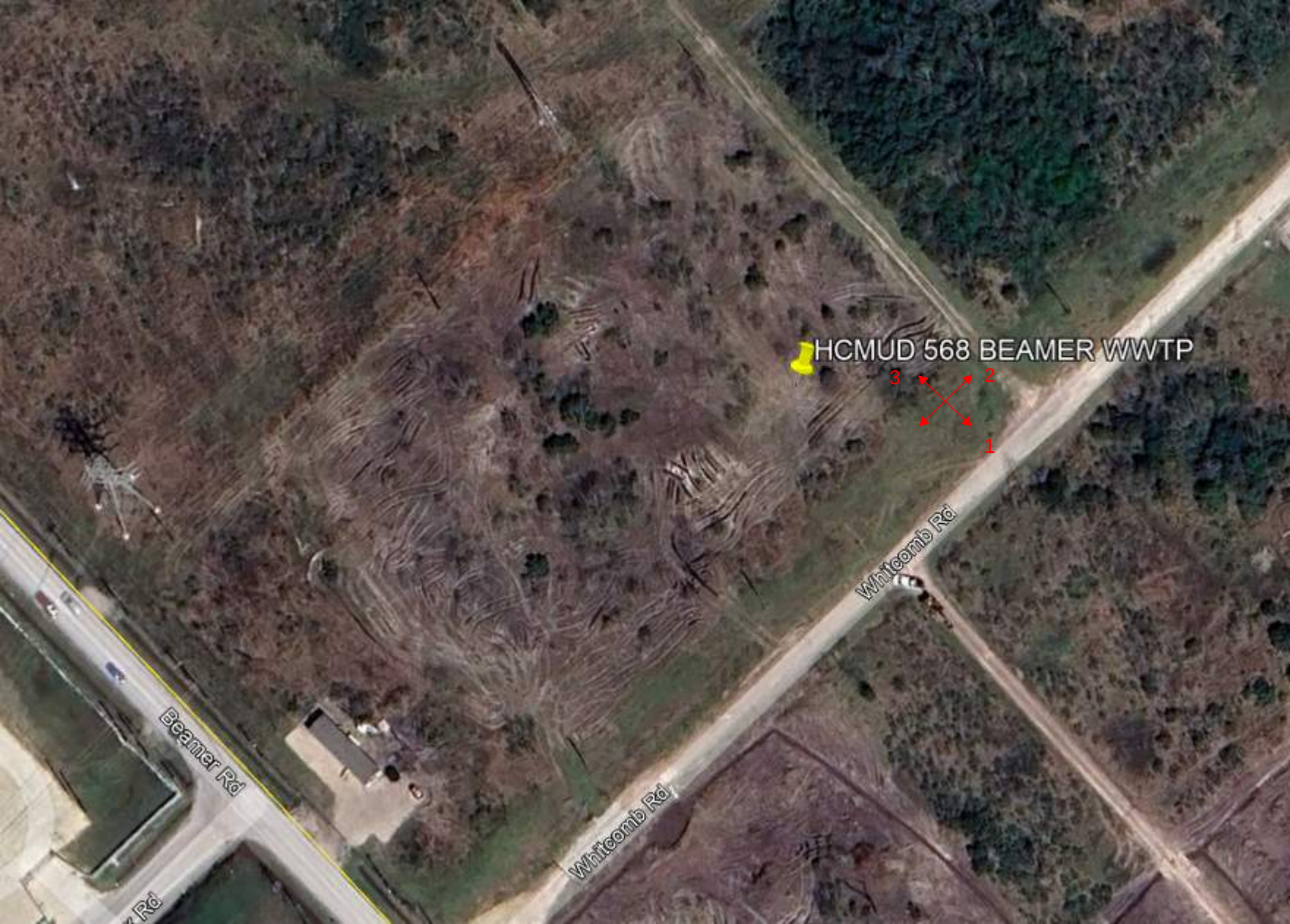
BLUDWORTH ROBERT A & BETTY
1302 W PARKWOOD AVE
FRIENDSWOOD, TX 77546-5702

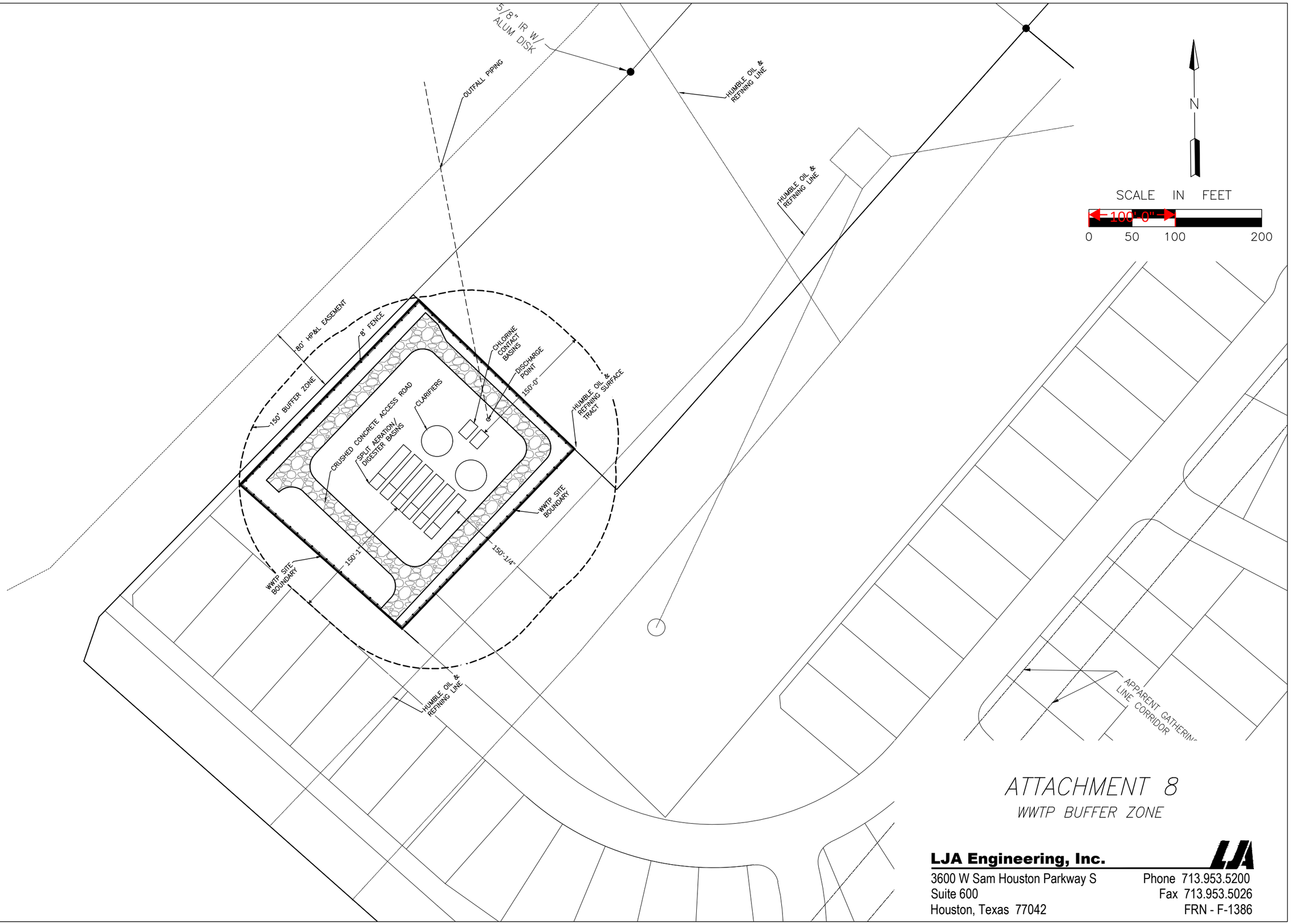
COASTAL BEND LAND INVESTMENTS LP
4558 FM 2351 RD
FRIENDSWOOD, TX 77546-2820

WATTS INVESTMENTS LLC
7975 E MCCLAIN DR
SCOTTSDALE, AZ 85260-1940

BREILING BEAMER ET AL
388 17TH ST STE 100
OAKLAND, CA 94612-3360

MAP KEY	OWNERS	OWNER ADDRESS 1	OWNER ADDRESS 3
1	BEAMER PARTNERS LP	14738 RIVER FOREST DR	HOUSTON, TX 77079
2	BLUDWORTH ROBERT A & BETTY	1302 W PARKWOOD AVE	FRIENDSWOOD, TX 77546-5702
3	WATTS INVESTMENTS LLC	7975 E MCCLAIN DR	SCOTTSDALE, AZ 85260-1940
4	SEWART SUPPLY INC	PO DRAWER L	MORGAN CITY, LA 70381-
5	COASTAL BEND LAND INVESTMENTS LP	4558 FM 2351 RD	FRIENDSWOOD, TX 77546-2820
6	BREILING BEAMER ET AL	388 17TH ST STE 100	OAKLAND, CA 94612-3360


HCMUD 568 BEAMER WWTP
3
2
1
Whitcomb Rd
Beamer Rd
Whitcomb Rd



ATTACHMENT 8

WWTP BUFFER ZONE

LJA Engineering, Inc.
3600 W Sam Houston Parkway S
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Harris County Municipal Utility District No. 568

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

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

   Approximately 0.55 miles southeast of the intersection of Beamer Rd. and FM 2351 in Harris County, TX 77546

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

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

First and Last Name: Robert Booth

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

Title: Senior Project Manager

Mailing Address: 1904 West Grand Parkway North, Suite 100

City, State, Zip Code: Katy, TX, 77449

Phone No.: (713) 953-5289 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: rbooth@lja.com

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

N/A

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

Through a storm sewer, thence to an unnamed creek, thence to Turkey Creek in Segment No. 1102D thence to Clear Creek in Segment No. 1101 of the San Jacinto-Brazos Coastal Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

Construction of WWTP, access road, and necessary components

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

Existing site is open field with grass and small shrubs. No discerable land uses.

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:

No buildings or structures on site.

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

Property is currently vacant.

ATTACHMENT 10
DESCRIPTION OF THE TREATMENT PROCESS
(In reference to Domestic Technical Report 1.0, Section 2, Item A)

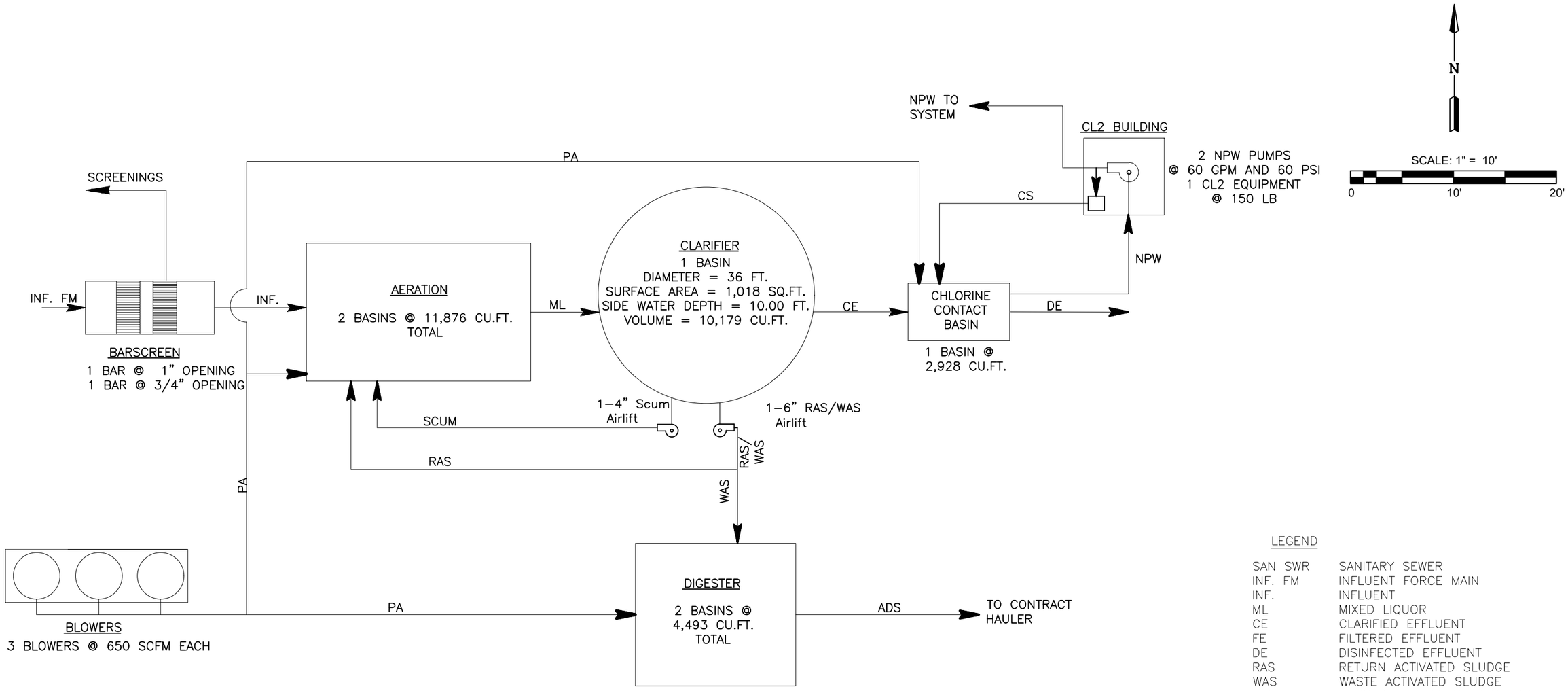
The treatment system includes a package plant employing the activated sludge process operating in the complete mix mode. The plant will be developed in three phases. Phase 1 will have a capacity of 0.120 MGD. Phase 2 will have a capacity of 0.225 MGD. The Ultimate Phase will have a capacity of 0.450 MGD.

The plant will consist of steel “box car” basins. Phase 1 will consist of two aeration basins, one 36’ clarifier, two aerobic digesters, and a chlorine contact basin. Phase 2 will include one additional aeration basin, and one digester. The ultimate phase will include three additional aeration basins, one 36’ clarifier, three digesters, and a chlorine contact basin. There will be a total of two trains in the final phase, each consisting of three aeration basins in series, a 36’ clarifier, and three digesters. The trains combine and the clarified effluent is disinfected in the two chlorine contact basins which are placed in series.

Influent to this facility will be pumped from a lift station to a bar screen with a flow splitter. The bar screen with flow splitter will split the influent to each bank of aeration basins of each treatment train. The mixed liquor from the aeration basins will flow to the clarifiers. The clarified effluent from the clarifiers will flow to the chlorine contact basin and the disinfected plant effluent will outfall via a storm sewer to a drainage ditch. Sludge will be returned to the aeration basins and wasted to the digester basins via air lifts, sludge will be hauled by a truck from the digesters via a licensed sludge contact hauler to a registered disposal site.

Attachment No. 11			
Treatment Units	**# of Units**	**Dimensions (L*W*D) (ft.)**	
Aeration Basin	2	44*12*13.2	INTERIM I 0.120 MGD
Clarifier	1	36 (Dia) * 14.2	
Cl2 Contact Basin	1	20*12*13.2	
Aerobic Digester	2	16*12*11.7	
Aeration Basin	2	44*12*13.2	INTERIM II 0.225 MGD
Aeration Basin	**1**	**44*12*13.2**	
Clarifier	1	36 (Dia) * 14.2	
Cl2 Contact Basin	1	20*12*13.2	
Aerobic Digester	2	16*12*11.7	
Aerobic Digester	**1**	**16*12*11.7**	
Aeration Basin	3	44*12*13.2	ULTIMATE 0.450 MGD
Aeration Basin	**3**	**44*12*13.2**	
Clarifier	1	36 (Dia) * 14.2	
Clarifier	**1**	**36 (Dia) * 14.2**	
Cl2 Contact Basin	1	20*12*13.2	
Cl2 Contact Basin	**1**	**20*12*13.2**	
Aerobic Digester	3	16*12*11.7	
Aerobic Digester	**3**	**16*12*11.7**	

Bolded	New proccesses
Shaded	Existing proccesses



LEGEND

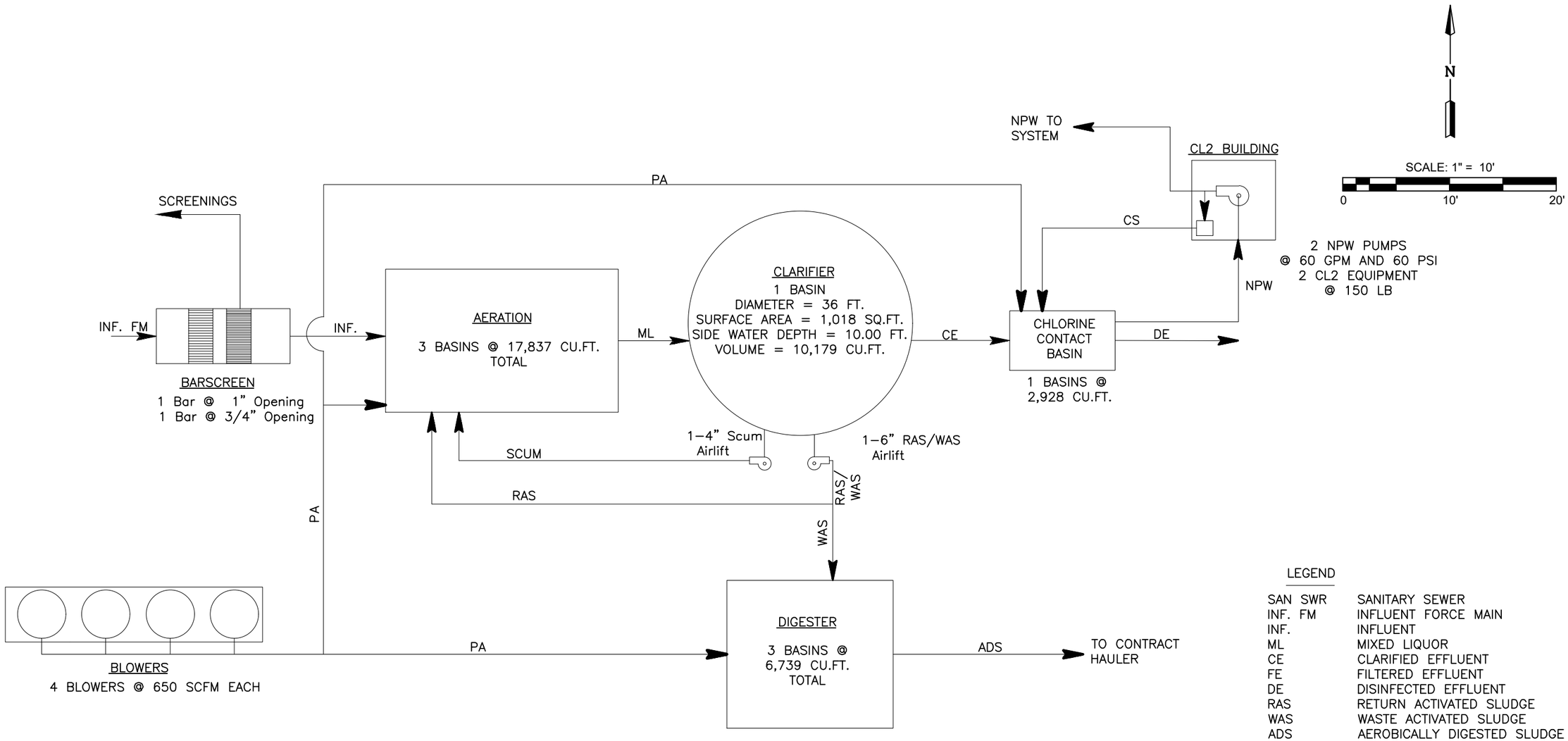
SAN SWR	SANITARY SEWER
INF. FM	INFLUENT FORCE MAIN
INF.	INFLUENT
ML	MIXED LIQUOR
CE	CLARIFIED EFFLUENT
FE	FILTERED EFFLUENT
DE	DISINFECTED EFFLUENT
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
ADS	AEROBICALLY DIGESTED SLUDGE
NPW	NON-POTABLE WATER
CS	CHLORINE SOLUTION
TOW	TOP OF WALL ELEVATION
FG	FINISHED GRADE ELEVATION
WSEL	WATER SURFACE ELEVATION
PA	PRESSURE AIR

PHASE	AVG. DAILY FLOW	PEAK FLOW
PHASE 1	0.120 MGD	0.48 MGD
PHASE 2	0.225 MGD	0.90 MGD
ULT. PHASE 3	0.450 MGD	1.80 MGD

APPENDIX 12.1

PROCESS FLOW DIAGRAM – PHASE 1 0.120 MGD

LJA Engineering, Inc.
3600 W. Sam Houston Parkway S.
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386



LEGEND

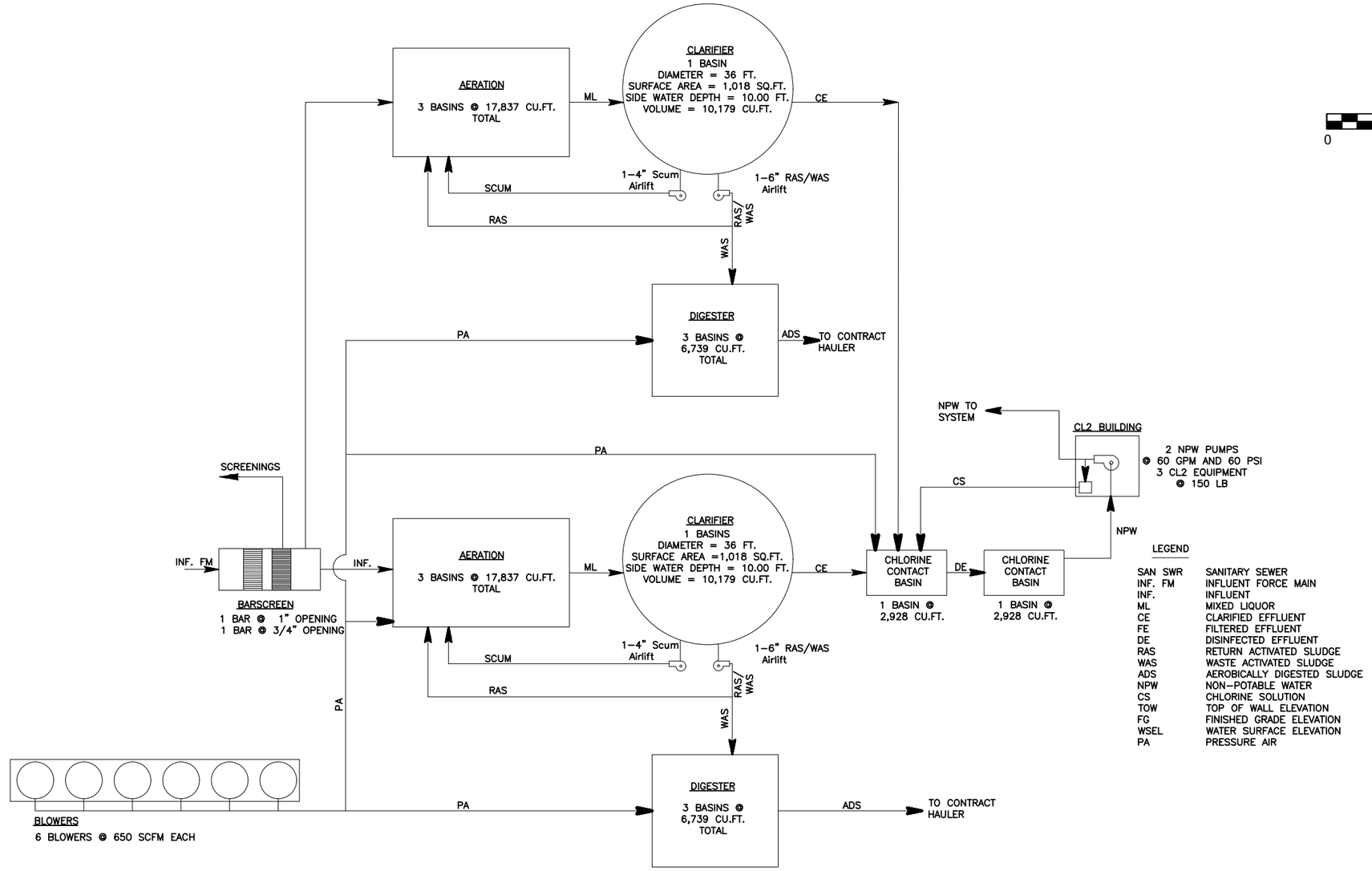
SAN SWR	SANITARY SEWER
INF. FM	INFLUENT FORCE MAIN
INF.	INFLUENT
ML	MIXED LIQUOR
CE	CLARIFIED EFFLUENT
FE	FILTERED EFFLUENT
DE	DISINFECTED EFFLUENT
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
ADS	AEROBICALLY DIGESTED SLUDGE
NPW	NON-POTABLE WATER
CS	CHLORINE SOLUTION
TOW	TOP OF WALL ELEVATION
FG	FINISHED GRADE ELEVATION
WSEL	WATER SURFACE ELEVATION
PA	PRESSURE AIR

PHASE	AVG. DAILY FLOW	PEAK FLOW
PHASE 1	0.120 MGD	0.48 MGD
PHASE 2	0.225 MGD	0.90 MGD
ULT. PHASE 3	0.450 MGD	1.80 MGD

APPENDIX 12.2

PROCESS FLOW DIAGRAM – PHASE 2 0.225 MGD

LJA Engineering, Inc.
3600 W. Sam Houston Parkway S.
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386



PHASE	AVG. DAILY FLOW	PEAK FLOW
PHASE 1	0.120 MGD	0.48 MGD
PHASE 2	0.225 MGD	0.90 MGD
ULT. PHASE 3	0.450 MGD	1.80 MGD

APPENDIX 12.3

PROCESS FLOW DIAGRAM – ULTIMATE PHASE 3 0.450 MGD

LJA Engineering, Inc.
3600 W. Sam Houston Parkway S.
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386

Attachment 13

a lotting study for

Beamer Road Tract

Phase 1
Option 2

prepared for

Beamer Partners LP

PLANNER:

LJA PLANNING & LANDSCAPE ARCHITECTURE

3600 W Sam Houston Pkwy S, Suite 600
Houston, Texas 77042
713.953.5200

This exhibit is an illustrative representation for presentation purposes only and should not be used for computation or construction purposes. The information provided within should be considered a graphic representation to aid in determining plan components and relationships and is subject to change without notice. All property boundaries, easements, road alignments, drainage, floodplains, environmental issues and other information shown is approximate and should not be relied upon for any purpose. No warranties, express or implied, concerning the actual design, accuracy, location, and character of the facilities shown on this exhibit are intended.

N

0 100 200 400

LJA# 2810-10014

06.17.2025

Attachment 14

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT 568
UTILITY FUNCTIONS AND SERVICES ALLOCATION AGREEMENT

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

THIS UTILITY FUNCTIONS AND SERVICES ALLOCATION AGREEMENT ("Agreement") is made and entered into as of the Effective Date by and between the CITY OF HOUSTON, TEXAS (the "City"), a municipal corporation and home-rule city which is principally situated and has its City Hall in Harris County, Texas, and Beamer Partners, LP, a Texas limited partnership (hereinafter referred to as "Beamer") on behalf of proposed HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 568, to be created as a body politic and corporate and a governmental agency of the State of Texas organized under the provisions of Article XVI, Section 59 of the Texas Constitution and operating pursuant to Chapter 54 of the Texas Water Code, as amended (the "District") (each a "Party and together the "Parties") (hereinafter the term "District" shall be construed to include both Beamer and the District, as it is the intention of the Parties that all rights, benefits and obligations pursuant to this Agreement shall ultimately be assigned by Beamer to the District upon its creation. Thus, the representations herein by the District at this time represent Beamer's commitment to cause or direct the same to occur).

RECITALS

WHEREAS, pursuant to Resolution No. 84-103 of the City of Houston, Texas, establishing the policy of the City regarding the creation of conservation and reclamation districts within the corporate limits of the City (the "Policy Statement"), the District was created within the City, for the purposes of, among other things, (i) providing water treatment, water distribution, wastewater collection, and other public works and services specified in the Consent Ordinance (defined herein) to serve development occurring within that portion of the City situated within the boundaries of the District, by financing and purchasing the Facilities, and (ii) promoting the policies of the City and the Texas Commission on Environmental Quality (the "Commission") for

regionalization of wastewater treatment facilities, by participating in the Metro Wastewater Treatment Plant (the "Plant"); and

WHEREAS, under the authority of Texas Local Government Code Section 552.014, as amended, the City and the District may enter into an agreement under the terms of which the District will acquire for the benefit of, and for ultimate conveyance to, the City, the Facilities needed to serve land being developed within the boundaries of the District; and

WHEREAS, the District intends to acquire from the City or third parties an estimated 400 single-family equivalent connections to the Combined Utility System (defined herein) to serve the property within the District at full development, which the City will endeavor to provide; and

WHEREAS, the City has committed that it has adequate capacity in its water system to provide water utility service to the District as it is developed in accordance with this Agreement, if as and when such capacity is purchased by the District pursuant to applicable City procedures and policies; and

WHEREAS, the City does not have sufficient capacity in the Blackhawk Regional Wastewater Treatment Facility ("Blackhawk"), which is the closest wastewater treatment facility in which the City owns capacity to the District, and does not intend to obtain additional capacity or participate in any expansion of Blackhawk but instead may divert flows to the Plant at some point in the future; and

WHEREAS, the City does have sufficient capacity in the Plant to serve the District, but does not have an existing conveyance system to provide transport of the flow from the District to the Plant; and

WHEREAS, the Plant will need to be expanded to receive flows from Blackhawk via the City's proposed Regional Bay Area lift station and force main in the future, if flows are diverted from Blackhawk; and

WHEREAS, if and when the City builds a Regional Bay Area lift station and force main in the future to divert the flow from the City's Blackhawk service area, such lift station can be built to take flow from the District, under cost sharing terms to be negotiated at a later date. The District

would be solely responsible for the cost and construction of the necessary Facilities to get said flows to the lift station; and

WHEREAS, the City has committed that when the necessary infrastructure improvements to the City's Combined Utility System have been completed and it has adequate capacity in the Plant, it agrees to provide wastewater utility service to the District as it is developed in accordance with this Agreement, if and when such capacity is purchased by the District pursuant to applicable City procedures and policies; and

WHEREAS, the City and the District have determined that it is advantageous to enter into this Agreement to provide the terms and conditions via which the City shall provide service to the District; and

WHEREAS, the City and the District have determined that they are authorized by the Texas Constitution and applicable laws of the State of Texas, including without limitation the Texas Water Code, Texas Local Government Code, and the City of Houston, Texas Charter and Code of Ordinances ("City Code") to enter into this Agreement and have further determined that the terms, provisions and conditions hereof are mutually fair and advantageous to each; NOW, THEREFORE;

AGREEMENT

In recognition of the premises and recitals set forth above, the truth of which the Parties acknowledge, and for and in consideration of these premises and of the mutual promises, obligations, covenants and benefits herein contained, the District and the City contract and agree as follows:

ARTICLE I

DEFINITIONS

In addition to terms defined elsewhere herein, the capitalized terms and phrases used in this Agreement shall have the meanings as follows:

"Approving Bodies" shall mean the City, Harris County, Texas, the Texas Department of Health, the Commission (as hereinafter defined), the Attorney General of Texas, the Comptroller of Public Accounts of Texas, the United States Department of Justice and all other federal, state and local governmental authorities having regulatory jurisdiction and authority over the financing, construction or operation of the Facilities or the subject matter of this Agreement.

"Bonds" shall mean the District's bonds, notes or other evidences of indebtedness issued from time to time for the purpose of financing the costs of acquiring, constructing, purchasing, operating, repairing, improving or extending the Facilities, District creation expenses, operating advances, capital recovery charges, and providing for interest to developers and for any necessary capitalized interest and costs of issuance, whether payable from ad valorem taxes, or other District revenues, the proceeds of one or more future bond issues or otherwise, and including any bonds, notes or similar obligations issued to refund such bonds.

"Capacity Reservations" shall mean defined capacity for water, wastewater, and/or drainage service in the City's Combined Utility System that the District, the developer, or other third parties authorized by the District may purchase in accordance with the City Code specifically in accordance with the terms provided for in any reservation letters for capacity purchased in accordance with the terms of Section 3.02 and 7.01 of this Agreement.

"City" shall mean the City of Houston, Texas, a municipal corporation and home-rule city under the laws of the State of Texas principally situated and with its City Hall in Harris County, Texas.

"City Facilities" shall mean any Facility conveyed by the District to the City in the manner and for the purposes described in this Agreement.

"City Service Effective Date" shall mean the date that the City first provides wastewater collection and treatment service to the District, as agreed to in writing by the Director and the District.

"Combined Utility System" shall mean the City's water, wastewater, and drainage systems operations and capital projects administered by or overseen by Houston Public Works.

"Commission" shall mean the Texas Commission on Environmental Quality, or any predecessor or successor agency.

"Consent Ordinance" shall mean City of Houston Ordinance in which the City consented to the creation to the District.

"Connection Equivalency Criteria" shall mean the City's then-current per day per single-family residential connection criteria (currently 250 gallons per day in 2018 and further described in the Water/Wastewater Discharge Equivalency Table codified at Section 47-1002 of the City Code).

"Developer" shall mean Beamer Partners, LP, a Texas limited partnership, and any other person or entity authorized to do business in Texas by the Secretary of the State of Texas, which constructs Facilities to serve the District.

"Director" shall mean the Director of Houston Public Works, and his/her successors and assigns.

"District" is defined in the preamble of this Agreement.

"District's Assets" shall mean (i) all rights, title and interests of the District in and to the Facilities, (ii) any Bonds of the District which are authorized but have not been issued by the District, (iii) all rights and powers of the District under any agreements or commitments with any persons or entities pertaining to the financing, construction or operation of all or any portion of the Facilities and/or the operations of the District and/or recreational facilities, and (iv) all books, records, files, documents, permits, funds and other materials or property of the District.

"District's Obligations" shall mean (i) all outstanding Bonds of the District, (ii) all other debts, liabilities and obligations of the District to or for the benefit of any persons or entities relating to the financing, construction or operation of all or any portion of the Facilities or the operations of the District, and (iii) all functions performed, services rendered, and obligations agreed to by the District, for and to the owners of property within the District and the customers of the Facilities.

"Effective Date" shall mean the date of Countersignature by the Houston City Controller and the date this Contract takes effect.

"Engineer" shall mean LJA Engineering, Inc., consulting engineer, or its replacements, successors or assignees, as duly appointed by the District.

"Engineering Reports" shall mean and refer to any engineering reports prepared by the Engineer from time to time relating to the issuance of Bonds by the District, copies of which shall be on file in the offices of the District.

"Facilities" shall mean and include all water distribution, transmission and treatment facilities, wastewater collection, transportation and treatment facilities, Stormwater Facilities, and other types of infrastructure specified in the Consent Ordinance constructed, purchased, financed, or acquired or to be constructed, purchased, financed or acquired by or on behalf of the District (or with respect to which the District provides or causes to be provided funds for construction, purchase, financing or acquisition by other parties) in accordance with this Agreement and the applicable City procedures set forth in the City Code and related guidance documents to serve land within its boundaries (portions of which Facilities may be located outside its boundaries), and all improvements, appurtenances, additions, extensions, enlargements or betterments thereto, together with all contract rights, permits, licenses, properties, rights-of-way, easements, sites and other interests related thereto, all as more fully described in the Engineering Reports.

"Plant" shall mean the Metro Wastewater Treatment Plant.

"Recreational Facilities" shall mean parks, landscaping, parkways, greenbelts, sidewalks, trails, public right-of-way beautification projects, and recreational equipment and facilities. The

term includes associated street and security lighting. The term does not include a minor improvement or beautification project to land acquired or to be acquired as part of a district's water, sewer, or drainage facility.

"Stormwater Facilities" shall mean stormwater channels, stormwater collection lines, stormwater detention ponds and systems, and/or stormwater pollution prevention and quality control systems, basins and devices constructed for the benefit of the District. Unless otherwise agreed to in writing in the future, consistent with Section 2.01, the City will not accept ownership and responsibility for operating and maintaining Stormwater Facilities for the District.

ARTICLE II

CITY REQUIREMENTS, PROCEDURES AND PAYMENTS

2.01. City Requirements. The District acknowledges that all Facilities and development in the District are subject to the applicable City requirements set forth in the City Code and related guidance documents for the design and construction of water and wastewater mains, stormwater facilities, and all connections to the City's water, wastewater and drainage systems must be in accordance with all applicable City requirements for developer construction set forth in the City Code and related guidance documents. Plat approvals, certificates of occupancy, water and wastewater capacity reservation letters, and all development approvals must comply with City requirements for construction in accordance with City approved plans and specifications and transfer of ownership to the City after construction is complete, for the City to own, operate and maintain except as set forth herein, unless otherwise agreed to in writing by the Parties at a later date. Connections to the City's water system and the City's wastewater system are conditioned upon the District satisfying all City requirements. Stormwater Facilities constructed by the District or on the District's behalf will not be transferred to the City for the City's ownership, operation and maintenance unless otherwise agreed to in writing by the Parties at a later date.

2.02. City Procedures. The Parties acknowledge that City procedures set forth in the City Code and related guidance documents adopted by the Mayor and City Council, for review, approval, oversight and inspection of the Facilities and associated water and wastewater capacity reservations are applicable to the District and all development constructed within the District's

boundaries. Nothing in this Agreement constitutes prior approval for any construction within the District.

2.03. District Payments to the City. No water and wastewater capacity shall be reserved, and no water and wastewater utility service shall be provided unless or until the District pays all applicable fees for such services, including impact fees, connection fees, permitting review and approval fees, and all other City fees applicable to design, construction and development for a District inside the City.

ARTICLE III

DESCRIPTION, DESIGN, FINANCING AND CONSTRUCTION OF THE FACILITIES

3.01. Facilities. The Facilities, as described in the Engineering Reports, shall be designed and constructed, as applicable, in compliance with all applicable requirements and criteria of the applicable Approving Bodies and subject to the applicable provisions of the Consent Ordinance. The District shall design and construct the Facilities in accordance with the applicable requirements and criteria set forth in the City Code and applicable guidance documents, which are applied to all design and construction within the City's jurisdiction, and which are consistent with then current City policies duly adopted by the Mayor of Houston and the Houston City Council. The District shall construct the District's connections to the Combined Utility System, the locations of which are described on Exhibit "B", or such other location as shall be mutually agreed upon by the District and the Director (the "Water Points of Connections" and "Wastewater Points of Discharge").

3.02. Capacity Reservations & Facilities. The City confirms that the City currently has adequate water capacity but does not have adequate wastewater treatment capacity or conveyance infrastructure in the Combined Utility System to accommodate the anticipated full development of the District. Consistent with this understanding, the District, or authorized third parties on behalf of the District, may make requests for Capacity Reservations and shall pay all applicable impact fees of the City as required under the Code of Ordinances for all Capacity Reservations prior to making any connection to the Combined Utility System. Any Capacity Reservations shall

be allocated exclusively to serve property within the District and shall not be utilized to serve property outside the District. The District acknowledges that Capacity Reservations for wastewater may not be allocated until the City completes the Improvements identified in Section 3.05.

3.03. Allocation of Capacity and Connections. Subject to the terms and conditions of this Agreement, including the District's or the Developer's payment of impact fees, the City shall allocate Capacity and connections to serve the District. The City and the District agree that the property located within the District is designated as part of the service area of the Plant. The District may add as many points of connection and points of discharge to the Combined Utility System as shall be mutually agreed upon in writing by the District and the Director. All water supplied by the City to customers within the District shall be metered. The District shall limit its use of water, wastewater, and drainage in the Combined Utility System such that the District's use does not exceed the amounts specified in the Capacity Reservations, including those purchased from time to time from the City at the then current City impact fee rates (subject to the provisions of Section 3.05).

The City and District shall calculate the number of water and wastewater connections, impact fees, and other land use assumptions based on the Connection Equivalency Criteria and the approved plats for the District.

3.04. Inability to Fulfill Capacity Requests. If, at any time during the term of this Agreement, the City is unable to provide water and/or wastewater treatment or line capacity to serve the needs of the District after a written request (the "Capacity Request") from the District, the City will provide, within sixty (60) days of receipt of the Capacity Request, written notification to the District that the City is unable to fulfill the Capacity Request. The Parties acknowledge that any lack of available water or wastewater treatment capacity may constrain construction in the District; therefore, the Parties agree that in the event that the City is unwilling or unable to fulfill a Capacity Request within a reasonable time, the Parties shall work together in good faith to determine and implement mutually agreeable solutions to both supply interim capacity, as well as to permanently fulfill the Capacity Request.

3.05. Improvement to Combined Utility System; Interim Wastewater Treatment Facilities. The City represents to the District that if the City constructs improvements to the Combined Utility System that are located or will serve properties within the Plant's service area (the "Improvements'), then it will use its best efforts to design and construct such Improvements to enable the City to provide wastewater treatment to the District for no less than 400 service units, provided the District pays its pro rata share of the cost of the Improvements. Such Improvements may include a regional lift station, force main and/or expansion of the Plant. The District acknowledges that the City is not obligated to construct the Improvements and any decisions regarding the design and construction of any such Improvements are solely within the discretion of the City. The City will provide to the District the costs associated with the District's pro-rata share of the cost of the Improvements (the "Improvements Cost"). The District shall be obligated to pay its pro-rata share of the Improvements Cost prior to construction of the Improvements, while the City will remain obligated to pay the remainder of the Improvements Cost that are in excess of the District's pro-rata share. The City shall credit the District's payments for the Improvements Cost as offsets to any impact fees or capacity charges the City may be entitled to charge the District or the Developer for providing wastewater treatment service within the District. Following completion of the Improvements (and upon issuance of the necessary Capacity Reservations and satisfaction of the terms and conditions specified in the Water Service Manual), the City agrees to provide wastewater treatment and collection services to the District, and the District agrees to connect its wastewater collection and transportation system to the City's lift station. Following completion of the Improvements and on or before the City Service Effective Date, the District will convey the Facilities to the City consistent with Section 4.01.

Because the City cannot presently provide wastewater collection, transportation and treatment to the District, the District shall be entitled to construct, operate and maintain reasonable and necessary on-site District wastewater collection, transportation and treatment facilities to serve the District with adequate wastewater treatment service in the location(s) determined by the District within the District's boundaries. The District may provide wastewater treatment service outside the District's boundaries as approved by the Director. After the City Service Effective Date, the District agrees to abandon, at no cost to the City, any such wastewater treatment facilities constructed by the District or the Developer, unless otherwise agreed to in writing by the Parties.

3.06. Assignments of Capacity by the District. Capacity Reservations will be assigned by platted section on assignment forms approved by the City for Capacity Reservations in the Plant to landowner(s) and developer(s) within the District's boundaries. The District must provide the City with notice of any such assignment as set forth in Section 7.06. At such time as a landowner or developer located within the boundaries of the District requests a building permit from the City, the City shall honor such assignments of Capacity Reservations or agreements; provided, however, that the City shall have no duty to honor any assignment of a Capacity Reservation that was not validly issued or which will result in capacity which exceeds the uncommitted capacity in the Combined Utility System (such as the uncommitted capacity in the Plant).

The District shall limit the number and type of connections to the District's sanitary sewer collection system so that the number of active connections does not exceed the District's Capacity Reservations at any time. In connection with such limitation, the District shall use the Connection Equivalency Criteria. The District shall have the right and shall be solely responsible for allocating its capacity under the Capacity Reservations among its customers, subject to compliance with the limitations of its Capacity Reservations and the Connection Equivalency Criteria. Notwithstanding the foregoing, the District shall not allow any connection to the District's water system or sanitary sewer system, unless, with respect to such connection:

(1) the District has issued an assignment of Capacity Reservations (which assignment may be by platted section) specifying the number of gallons per day allocated for each connection, and has provided a copy thereof to the Director;

(2) the City has issued a building permit for that connection;

(3) all buildings or structures served by connections shall be located entirely within the boundaries of a lot or parcel shown in a plan, plat or replat filed with and finally approved by the City Planning Commission and duly recorded in the official records of Harris County (provided this limitation shall not apply if no plan, plat or replat is required by applicable State statutes, City ordinances or City Planning Commission regulations); and

(4) the District or an authorized third party has paid the City impact fees for the capacity required to provide service to the applicable connection(s).

The City shall have the right to refuse, and shall not allow, the issuance of a building permit for any connection if: (i) with respect to the District, the addition of such connection will result in a number of active connections to the District's water system or sewer collection system which exceeds the District's Capacity Reservations for which the District has paid impact fees; or (ii) the number of gallons per day stated in the assignment of Capacity Reservations for the connection is less than the actual number of gallons per day for the connection, computed in accordance with the Connection Equivalency Criteria. The restrictions on connections to the District's sanitary sewer system set forth in clauses (1) and (4) above shall not be applicable until the City Service Effective Date.

A connection shall no longer be considered an active connection when or if the Director determines that: (1) the premises formerly served by the connection have been destroyed or abandoned; (2) the connection has been physically sealed; and (3) water and sewer services are not likely to be resumed to the premises in the reasonably foreseeable future.

3.07. Facilities Standards. The District shall design and construct Facilities to serve the property within its boundaries in accordance with the City's then current Infrastructure Design Manual and applicable federal, state, and local laws, regulations, and related duly adopted guidance documents of the City.

3.08. Authority of District to Issue Bonds. Subject to the regulatory oversight of the District by the Commission and the Attorney General of the State of Texas, as applicable, the District has the authority to issue, sell and deliver Bonds from time to time, as deemed necessary and appropriate by the Board of Directors of the District, for the purposes, in such forms and manner and as permitted or provided by federal law, the general laws of the State of Texas and the City's Consent Ordinance. With respect to Bonds which require Commission approval prior to issuance of same, the District shall not be authorized to sell such Bonds until it has provided the Director with a certified copy of the Commission order approving such Bond issue in accordance with its then existing rules. To the extent the District sells Bonds secured by ad valorem taxes,

nothing herein shall be construed as a limitation on the District's authority to levy an unlimited tax rate, it being understood and acknowledged that the District's Bonds shall be payable from and secured by a pledge of the proceeds of an ad valorem tax, without legal limitation as to rate or amount. The District shall provide the Director with copies of the Official Statement and the Bond Resolution for each issue of Bonds prior to the closing of each respective series of such Bonds. Further, the foregoing shall not be construed as a limitation on the District's authority to issue other forms of Bonds as allowed by applicable law and the rules of the Commission.

3.09. Distribution of Bond Proceeds. The proceeds of Bonds issued by the District shall be deposited, upon receipt, into the District's funds, as appropriate, and shall be used and may be invested or reinvested, from time to time, as provided in the order or resolution of the District authorizing the issuance, sale and delivery of such Bonds and the investment policy of the District and in the manner provided by law and the applicable rules, regulations and guidelines of the applicable Approving Bodies. Pursuant to the requirements of the applicable Approving Bodies and as permitted by federal law and the laws of the State of Texas, surplus funds on hand and available from the proceeds of the Bonds may be utilized by the District for any legally authorized purpose.

3.10. Bonds as Obligation of District. Unless and until the City dissolves the District as provided by law and Article V hereof, the Bonds of the District, as to both principal and interest, shall be and remain obligations solely of the District and shall never be deemed or construed to be obligations or indebtedness of the City.

3.11. Construction by Third Parties. From time to time, the District, at such time or times as it deems appropriate, may enter into one or more agreements with the Developer or other developers of property located within the District (the "Utility Development Agreement"), whereby the Developer or other developers will undertake, on behalf of the District, to pre-finance, pre-acquire, pre-purchase and/or pre-construct, in one or more phases, all or any portion of the Facilities. Under the terms of each such Utility Development Agreement, the Developer or other developers will be obligated to finance, acquire, purchase and/or construct the Facilities in accordance with the City Code, regulations and related guidance documents duly adopted by the City, and in the manner which would be required by law if such work were being performed by

the District. Each Utility Development Agreement will provide for the purchase of the Facilities from (or payment for the Facilities to) the Developer or other developers using the proceeds of one or more issues of Bonds, as otherwise permitted by law and the applicable rules, regulations and guidelines of the applicable Approving Bodies or as provided in Section 4.01 below, and nothing herein shall be construed to prohibit payment to a Developer for costs of the Facilities together with any other sums agreed by the District to be paid pursuant to any such agreement.

3.12 Recreational Facilities. The District, at no cost to the City, shall be permitted to acquire, own, develop, construct, improve, manage, maintain and operate improvements, facilities and equipment for the purpose of providing Recreational Facilities, subject to submission of plans for such Recreational Facilities (the "Recreational Facilities Plan") approved in writing by the Director and the City's Director of the Parks and Recreation Department, or his or her designee (the "Parks Director"), which approval shall not be unreasonably withheld. The District and City may amend the Recreational Facilities Plan in the same manner as originally submitted and approved. The Recreational Facilities Plan shall be in a form acceptable to the Director and the Parks Director and using forms approved by the City Attorney or his or her designee. The Recreational Facilities Plan may provide for the future conveyance of any such Recreational Facilities to the City or another entity.

ARTICLE IV

OWNERSHIP, OPERATION AND MAINTENANCE OF FACILITIES

4.01. Ownership by City. As the Facilities are acquired and constructed and except as specifically set forth in Section 3.05 and this Section 4.01 below, the District shall convey the City Facilities, including all warranties relating to the City Facilities, to the City. The conveyances of the City Facilities shall be substantially in the form attached hereto as Exhibit "C", and any deeds or easements granted to the City or to the District in connection with the City Facilities shall be substantially in the form attached hereto as Exhibit "D." The District shall not be required to convey Facilities consisting of wastewater collection and transportation facilities or water transmission facilities to the City before completion of the Improvements. Notwithstanding the foregoing and as set forth in Section 2.01, unless otherwise agreed to in writing by the Parties at a later

date, Stormwater Facilities constructed by the District or on the District's behalf will not be transferred to the City for the City's ownership, operation and maintenance.

4.02. Operation by the City. As acquisition and/or construction of each phase of a City Facility is completed, the District's Engineer will notify the City and representatives of the City shall inspect the same within fifteen (15) days thereafter. In addition, the District agrees to deliver a set of record drawings of the City Facilities to the City upon completion of each such phase of acquisition and/or construction. If the City finds that the City Facilities have been completed in accordance with the final plans and specifications, the City will accept the same, whereupon such portion of these City Facilities shall be operated and maintained by the City at its sole expense as provided herein. In the event that the City inspectors find that the City Facilities have not been completed in accordance with the final plans and specifications, the City shall provide a response in accordance with then current and applicable City policy. Notwithstanding the foregoing, the City will not accept, operate or maintain City Facilities consisting of wastewater collection and treatment facilities before the City Service Effective Date.

4.03. City Service. During the term of this Agreement, the City will operate the City Facilities and provide service to the District in accordance with the terms and conditions of this Agreement. The City will not discriminate against any user or customer within the District. The City shall at all times operate and maintain the City Facilities, or cause the same to be operated and maintained, in accordance with all regulatory requirements and will continue to operate City Facilities in an efficient and economical manner at the reasonable cost of service. The City will comply with all contractual provisions and agreements entered into by it and with all valid rules, regulations, directions or orders by any governmental, administrative or judicial body promulgating the same. Notwithstanding the foregoing, this Section 4.03 does not create a cause of action for the District against the City for damages or injuries related to any regulatory non-compliance.

4.04. Rates. Prior to the City Service Effective Date, the City shall bill the District for treated water pursuant to the terms of a Treated Water Supply Contract between the City and the District. Until the City Service Effective Date, the District shall bill all customers for water and sewer services and shall ensure its rates are sufficient to fully and timely pay the City for the treated

water. Beginning on the City Service Effective Date, the City shall bill and collect from customers of the City Facilities and shall from time to time fix such rates and charges for such customers of the City Facilities as the City, in its sole discretion, determines are necessary; provided that the rates and charges for services afforded by the City Facilities will be just, reasonable, non-discriminatory and uniform to those charged other similar classifications of users in areas of the City that are not within a district such as the District. The Parties agree that nothing herein shall be deemed or construed to prohibit, limit, restrict, or otherwise inhibit the City's authority to charge for water, wastewater and drainage services at such rate or rates as the City Council from time to time may determine to be necessary, nor will anything inhibit the City's use of its revenues for any authorized purpose in accordance with applicable law. All such revenues from the City Facilities shall belong exclusively to the City; provided, however, that all revenues generated by the District's collection of District ad valorem taxes as set forth in Section 7.03 shall belong exclusively to the District.

ARTICLE V

DISSOLUTION OF THE DISTRICT

5.01. Dissolution of District Prior to Retirement of Bonded Indebtedness. The City and the District recognize that, as provided in the laws of the State of Texas and the Consent Ordinance, the City has the right to abolish and dissolve the District and to acquire the District's Assets and assume the District's Obligations. Upon dissolution of the District by the City, the City shall acquire the District's Assets and shall assume the District's Obligations. If requested by the District, the City shall afford the District the opportunity to discharge any of the District's Obligations pursuant to any existing Utility Development Agreements of the District, by either (i) authorizing the District to sell its Bonds before or during a transition period prior to the effective date of dissolution, as established by the City, (ii) pursuant to Texas Local Government Code Section 43.080, as amended, issuing and selling bonds of the City in at least the amount necessary to discharge the District's Obligations, including those under any Utility Development Agreement, or (iii) providing written notice to the District that the City has sufficient funds available from other sources to discharge the District's Obligations, including those under any Utility Development Agreement.

5.02. Transition upon Dissolution. In the event all required findings and procedures for the dissolution of the District have been duly, properly and finally made and satisfied by the City, and unless otherwise mutually agreed by the City and the District pursuant to then existing law, the District agrees that its officers, agents and representatives shall be directed to cooperate with the City in any and all respects reasonably necessary to facilitate the dissolution of the District and the transfer of the District's Assets to, and the assumption of the District's Obligations by, the City.

ARTICLE VI

REMEDIES IN EVENT OF DEFAULT

The Parties hereto expressly recognize and acknowledge that a breach of this Agreement by either Party may cause damage to the non-breaching Party which is not readily ascertainable at this time. Accordingly, the Parties agree that in the event of a breach of this Agreement by either Party, the other Party shall be entitled to exercise all rights and remedies provided by the laws of the State of Texas or in equity.

ARTICLE VII

MISCELLANEOUS PROVISIONS

7.01. Annexation of Land and Related Wastewater Treatment Capacity. The Parties acknowledge that the Developer or other developer may seek to purchase additional land, together with related water and wastewater system capacity in the City's Combined Utility System, which land the Developer or other developer may propose to be annexed into the District. Such additional land may be annexed into the District at a future date, which land shall be (1) located within the corporate limits of the City; and (2) within the same wastewater service area; and the City has (a) sufficient capacity in the Plant; or (b) entered into a separate agreement with the District to fund Improvements as necessary to serve the additional land. The District acknowledges that any proposed annexation of land into the District requires the approval of the City Council. This Agreement does not constitute prior written approval for the District to annex additional land into the District without the approval of City Council. In the event the City Council approves such annexation of additional land, the District may assign water and wastewater system capacity to

such additional land in accordance with this Agreement, including compliance with all City requirements, procedures, and payments as specified in this Agreement.

7.02. Permits, Fees, Inspections. The District understands and agrees that all City ordinances and codes, including the Building and Plumbing Codes and other applicable permits, fees and inspections, shall be of full force and effect within the District's boundaries in the same manner as with respect to other areas within the City's corporate limits except as otherwise specifically set forth in this Agreement.

7.03. District Taxes. In accordance with State law, the District is authorized to assess, levy, and collect ad valorem taxes upon all taxable properties within the District to provide for: (i) the payment in full of the District's Obligations; including principal, redemption premium, if any, or interest on the Bonds, and to establish and maintain any interest and sinking fund, debt service funds, or reserve fund; and (ii) for maintenance, operation, and administrative purposes, all in accordance with applicable law. The Parties agree that nothing herein shall be deemed or construed to prohibit, limit, restrict, or otherwise inhibit the District's authority to levy ad valorem taxes at such rate or rates as the Board of Directors of the District from time to time may determine to be necessary or the District's use of its tax revenues for any authorized purpose in accordance with applicable law. The City and the District recognize and agree that all ad valorem tax receipts and revenues collected by the District shall become the property of the District and may be applied by the District to the payment of all proper debts, obligations, costs, and expenses of the District and may be pledged or assigned to the payment of all or any designated portion of the principal or redemption premium, if any, or interest on the Bonds or otherwise in accordance with applicable law.

7.04. Force Majeure. In the event either Party is rendered unable, wholly or in part, by force majeure to carry out any of its obligations under this Agreement (except the obligation to pay money), then the obligations of such Party, to the extent affected by such force majeure and to the extent that due diligence is being used to resume performance at the earliest practicable time, shall be suspended during the continuance of any inability so caused, to the extent provided, but for no longer period. As soon as reasonably possible after the occurrence of the force majeure relied upon, the Party whose contractual obligations are affected thereby shall give notice and the

full particulars of such force majeure to the other Party. Such cause, as far as possible, shall be remedied with all reasonable diligence. The term "force majeure", as used herein, shall include without limitation of the generality thereof, acts of God, strikes, lockouts, or other industrial disturbances, acts of the public enemy, orders of any kind of the government of the United States or the State of Texas or any civil or military authority, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, storms, floods, washouts, drought, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipelines or canals, partial or entire failure of water supply, and inability to provide water necessary for operation of the water and sewer systems hereunder, or of the City to receive waste, and any other inabilities of either Party, whether similar to those enumerated or otherwise, which are not within the control of the Party claiming such inability, which such Party could not have avoided by the exercise of due diligence and care. It is understood and agreed that the settlement of strikes and lockouts shall be entirely within the discretion of the Party having the difficulty, and that the above requirement that any force majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes and lockouts by acceding to the demands of the opposing party or parties when such settlement is unfavorable to it in the judgment of the Party having the difficulty.

7.05. Approvals and Consents. Approvals or consents required or permitted to be given under this Agreement shall be evidenced by an ordinance, resolution, or order adopted by the governing body of the appropriate Party or by a certificate executed by a person, firm, or entity previously authorized to give such approval or consent on behalf of the Party. Approvals and consents shall be effective without regard to whether given before or after the time required for giving such approvals or consents. If the District annexes additional land in accordance with Section 7.01, the Director shall be authorized to accept, on behalf of the City, changes to Exhibit "A." In addition, the Director (or Director's designee) shall be authorized, on behalf of the City, to: (i) accept City Facilities when such City Facilities are conveyed to the City in accordance with Article IV of this Agreement; (ii) to issue Capacity Reservations for capacity purchased in accordance with the terms of Sections 3.02 and 7.01 of this Agreement; and (iii) accept changes to Exhibit "B" to this Agreement to update the District's water points of connections and wastewater points of discharge and the location of the force main or sanitary sewer line, as may be needed from time to time.

7.06. Addresses and Notice. Unless otherwise provided in this Agreement, any notice to be given under this Agreement shall be given in writing and may be given either by depositing the notice in the United States mail postpaid, registered or certified mail, with return receipt requested; delivering the notice to an officer of the Party to be notified; or sending the notice by prepaid telegram, when appropriate. Notice deposited by mail in the foregoing manner shall be effective the third day after the day on which it is deposited. Notice given in any other manner shall be effective only when received by the Party to be notified. For the purposes of notice, the addresses of the Parties shall be as follows:

If to the City, to:

Houston Public Works
Attn: Director
611 Walker, 25th Floor
Houston, Texas 77002
Email address: PublicWorks@houstontx.gov

With a copy to:

Director, Houston Water Planning
Houston Public Works

611 Walker, 18th Floor
Houston, Texas 77002

If to the District, to:

Harris County Municipal Utility District No. 568
c/o Suewan Johnson
Allen Boone Humphries Robinson LLP
3200 Southwest Freeway, Suite 2600
Houston, Texas 77027

The Parties shall have the right from time to time to change their respective addresses by giving at least fifteen (15) days written notice of such change to the other Party.

7.07. Assignability. This Agreement may be assigned by either Party upon notice in writing to the other Party; provided, however, that no assignment shall be effective until the assignee shall have executed and delivered written acceptance of the terms and conditions of this Agreement to the non-assigning Party.

7.08. No Additional Waiver Implied. The failure of either Party to insist upon performance of any provision of this Agreement shall not be construed as a waiver of the future performance of such provision by the other Party.

7.09. Reservation of Rights. All rights, powers, privileges and authority of the Parties hereto not restricted or affected by the express terms and provisions hereof are reserved by the Parties and, from time to time, may be exercised and enforced by the Parties.

7.10. Parties in Interest. This Agreement shall be for the sole and exclusive benefit of the Parties hereto and shall not be construed to confer any rights upon any third party.

7.11. Merger. This Agreement embodies the entire understanding between the Parties and there are no representations, warranties or agreements between the Parties covering the subject matter of this Agreement other than the Consent Ordinance between the City and the District. If any provisions of the Consent Ordinance appear to be inconsistent or in conflict with the provisions of this Agreement, then the provisions contained in this Agreement shall be interpreted in a way which is consistent with the Consent Ordinance.

7.12. Exhibits. All exhibits attached to this Agreement are incorporated herein by reference for all purposes.

7.13. Captions. The captions of each section of this Agreement are inserted solely for convenience and shall never be given effect in construing the duties, obligations or liabilities of the Parties hereto or any provisions hereof, or in ascertaining the intent of either Party, with respect to the provisions hereof.

7.14. Interpretations. This Agreement and the terms and provisions hereof shall be liberally construed to effectuate the purposes set forth herein and to sustain the validity of this Agreement.

7.15. Severability. If any provision of this Agreement or the application thereof to any person or circumstances is ever judicially declared invalid, such provision shall be deemed severed from this Agreement and the remaining portions of this Agreement shall remain in effect.

7.16. Term and Effect. This Agreement shall remain in effect from the Effective Date until the earlier to occur of (i) the dissolution of the District by the City and the assumption by the City of the District's Obligations and the acquisition by the City of the District's Assets; or (ii) the expiration of thirty (30) years from the date hereof.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the Parties hereto have executed this Utility Functions and Services Allocation Agreement in multiple copies, each of equal dignity, on this the _____ day of _____, 2021.

CITY OF HOUSTON, TEXAS

By: _____
Mayor

COUNTERSIGNED BY:

By: _____
City Controller

_____

DATE OF COUNTERSIGNATURE

ATTEST/SEAL:

By: _____
City Secretary

APPROVED:

By: _____
Director, Houston Public Works

APPROVED AS TO FORM:

By: _____
Assistant City Attorney
L.D. No.

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 568

By: BEAMER PARTNERS, LP

By: _____

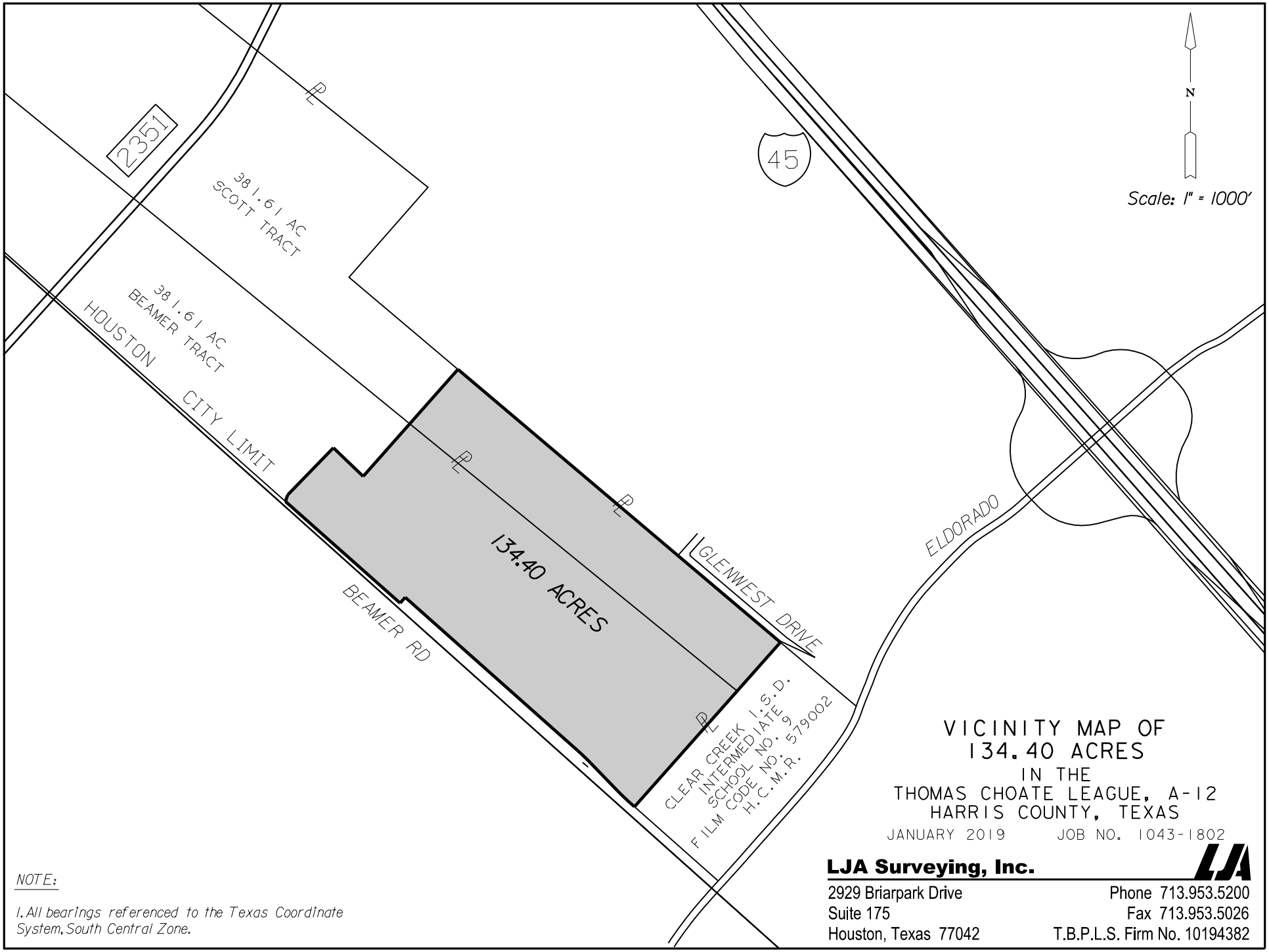
Name: STEPHEN M. PIERCE

Title: PRESIDENT, GENERAL PARTNER

LIST OF EXHIBITS

Exhibit A	-	Metes and Bounds Description of Land within District
Exhibit B	-	Water Points of Connections and Wastewater Points of Discharge
Exhibit C	-	Form of Facilities Conveyance
Exhibit D	-	Form of Easement and Special Warranty Deed

Exhibit A



VICINITY MAP OF 134.40 ACRES

IN THE
THOMAS CHOATE LEAGUE, A-12
HARRIS COUNTY, TEXAS

JANUARY 2019 JOB NO. 1043-1802

NOTE:

1. All bearings referenced to the Texas Coordinate System, South Central Zone.

LJA Surveying, Inc.
2929 Briarpark Drive
Suite 175
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
T.B.P.L.S. Firm No. 10194382

I:\Projdskl\SURVEY\1043\1802\CAD\EX*MUD Exhibit letter.dgn
1/24/2019

January 24, 2019
Job No. LJAS001-1043-1802

134.40 ACRES

Being 134.40 acres of land located in the Thomas Choate League, Abstract No. 12, Harris County, Texas; being a portion of that certain called 381.61 acre tract of land described in an instrument of record under in Volume 834, Page 533, of the Deed Records of said Harris County, Texas (H.C.D.R.) (hereinafter referred to as the 381.61 acre Beamer Tract), of which one quarter (1/4) interests in said 381.61 acre Beamer Tract were conveyed equally to Kathryn Beamer Breiling, individually and as Trustee and Scott Beamer, individually and as Trustee by an instrument of record under File Number K242495, of the Official Public Records of Real Property of Harris County, Texas (H.C.O.P.R.R.P.) and a portion of a separate called 381.61 acre tract of land was conveyed to George A. Scott by an instrument of record under in Volume 834, Page 534, H.C.D.R. (hereinafter referred to as the 381.61 acre Scott Tract), said 130.40 acres being more particularly described by metes and bounds as follows, all bearings referenced to the Texas Coordinate System, South Central Zone, NAD 83 (1993 adjustment):

BEGINNING at a 5/8-inch iron rod with cap stamped "Baseline Corp" found for the southeast corner of a 3.1271 acre tract of land (described as Parcel No. 2, Part 2B) conveyed to County of Houston for the widening of Beamer Road of record under File Number 2014032626, H.C.O.P.R.R.P., also being the northwest corner of Restricted Reserve "A" of Clear Creek I.S.D. Intermediate School No. 9, a subdivision of record under Film Code Number 579002, of the Map Records of Harris County, Texas (H.C.M.R.), said point being on the easterly right-of-way line of Beamer Road (width varies) Volume 69, Page 231 and Volume 663, Page 272, Deed Records of Harris County Texas (H.C.D.R.), Volume 315, Page 30, H.C.M.R. and Film Code Number 579002, H.C.M.R. and File Number 2014032626, H.C.O.P.R.R.P.;

Thence, along the easterly line of said Beamer Road described in File Number 2014032626, H.C.O.P.R.R.P. the following six (6) courses:

1. North 48° 26' 02" West, 42.19 feet to a 5/8-inch iron rod with cap stamped "Baseline Corp" found for corner, the beginning of a curve;

2. 141.83 feet, along the arc of a tangent curve to the right, having a radius of 1,849.86 feet, a central angle of 04° 23' 34", and a chord which bears North 46° 14' 14" West 141.79 feet to a 5/8-inch iron rod with cap stamped "Baseline Corp" found for corner;

3. North 44° 02' 27" West, 304.11 feet to a 5/8-inch iron rod with cap stamped "Baseline Corp" found for corner, the beginning of a curve;

4. 147.99 feet, along the arc of a tangent curve to the left, having a radius of 1,969.86 feet, a central angle of 04° 18' 16", and a chord which bears North 46° 11' 35" West 147.95 feet to a 5/8-inch iron rod with cap stamped "Baseline Corp" found for corner;

5. North 48° 20' 43" West, 1,827.98 feet to a 5/8-inch iron rod with cap stamped "Baseline Corp" found for corner;

6. South 41° 39' 45" West, 61.62 feet to a point for the northwest corner of the aforementioned 3.1271 acre tract, said point being on the easterly right-of-way line of Beamer Road described in Volume 663, Page 272, H.C.D.R. (called 60 feet wide at this point);

Thence, North 48° 24' 53" West, continuing along the easterly line of said Beamer Road, 1,216.93 feet to a point for corner;

Thence, North 18° 55' 59" East, departing said easterly right-of-way line, at 2.30 feet pass a 5/8-inch iron rod with aluminum disk stamped HL&P CO PT 103C found for the southwest corner of a 2.298 acre Houston Lighting & Power Company right-of-way easement (120 feet wide at this point) granted under File Number L544227, H.C.O.P.R.R.P., continuing in all a total distance of 54.36 feet to an angle point on the southeasterly line of said right-of-way easement (80 feet wide at this point);

Thence, North 44° 16' 59" East, continuing along the southeasterly line of said right-of-way easement, 520.81 feet to a point for corner, from which a found 5/8-inch iron rod with aluminum disk stamped HL&P CO PT 101A at an angle point on the southeasterly line of said right-of-way easement bears North 44° 16' 59" East, 360.31 feet;

Thence, South 46° 14' 34" East, departing said southeasterly line and generally along the westerly line of a dirt road, 325.93 feet to a point for corner ;

Thence, North 41° 35' 30" East, generally along the remains of a 4 foot barbed wire fence, 1,134.09 feet to a point for corner on the easterly line of the aforementioned 381.61 acre Scott Tract, same being the westerly line of the residue of that certain called 76.52 acre tract described conveyed to Thomas Franklin Riggs, Catherine Riggs, Brian Riggs and Grace India Riggs by an instrument of record under File Number F028674, H.C.O.P.R.R.P., to Bumble Bee Partners, Ltd by an instrument of record under File Number T669265, H.C.O.P.R.R.P., and to Tessa Ellen Blake by an instrument of record under File Number W794835, H.C.O.P.R.R.P.;

Thence, South 49° 45' 00" East, along the easterly line of said 381.61 acre Scott Tract and the westerly line of said 76.52 acre tract and its extension along Glenwest Drive (60 feet wide at this point) as shown on Film Code Number 660047, H.C.M.R., 3,351.29 feet to a 3/4-inch iron pipe for the northeast corner of that certain called 99.19 acre tract conveyed to Lakefield Realty, Inc. by an instrument of record under File Number U476294, H.C.O.P.R.R.P., said point being an angle point on the westerly right-of-way line of Glenwest Drive;

Thence, South 41° 34' 48" West, along the northwesterly line of said 99.19 acre tract, at 466.79 feet pass a 1-1/4-inch iron pipe found for the most western northeast corner of Restricted Reserve "A" of the aforementioned Clear Creek I.S.D. Intermediate School No. 9 subdivision, continuing along the northwest line of said Reserve "A", in all a total distance of 1,745.13 feet to the POINT OF BEGINNING and containing 134.40 acre of land.

"This document, prepared under 22 TAC § 663.21, does not reflect the results of an on the ground survey and is not to be used to convey or establish interests in real property except those rights and interests implied or established by the creation or reconfiguration of the boundary of the political subdivision for which it was prepared."

LJA Surveying, Inc.

HARRIS COUNTY M.U.D. 568

Approx. 134 ac.

UTILITY EXHIBIT

CITY OF HOUSTON

SEPTEMBER 2021

LEGEND

- DISCOVERY TRACT
- CITY AND ETJ LIMITS
- SANITARY FORCE MAIN
- SANITARY LINE
- WATER LINE
- STORM LINE

DATA SOURCE: UTILITY - CITY OF HOUSTON GIMS, CITY OF HOUSTON LIMITS AND ETJ - CITY OF HOUSTON

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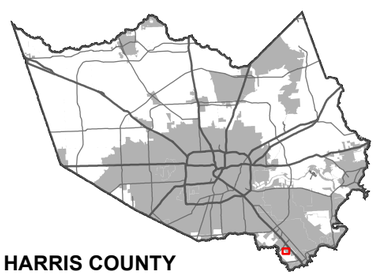

AERIAL PHOTOGRAPH DATE: NEARMAP 2021

THIS PRODUCT IS FOR INFORMATIONAL PURPOSES AND MAY NOT HAVE BEEN PREPARED FOR OR BE SUITABLE FOR LEGAL, ENGINEERING, OR SURVEYING PURPOSES. IT DOES NOT REPRESENT AN ON-THE-GROUND SURVEY AND REPRESENTS ONLY THE APPROXIMATE RELATIVE LOCATION OF PROPERTY BOUNDARIES.

LJA ENGINEERING
3600 W Sam Houston Parkway S, Suite 600
Houston, Texas 77042
Phone 713.953.5200 TBPE F-1386
LJA.com

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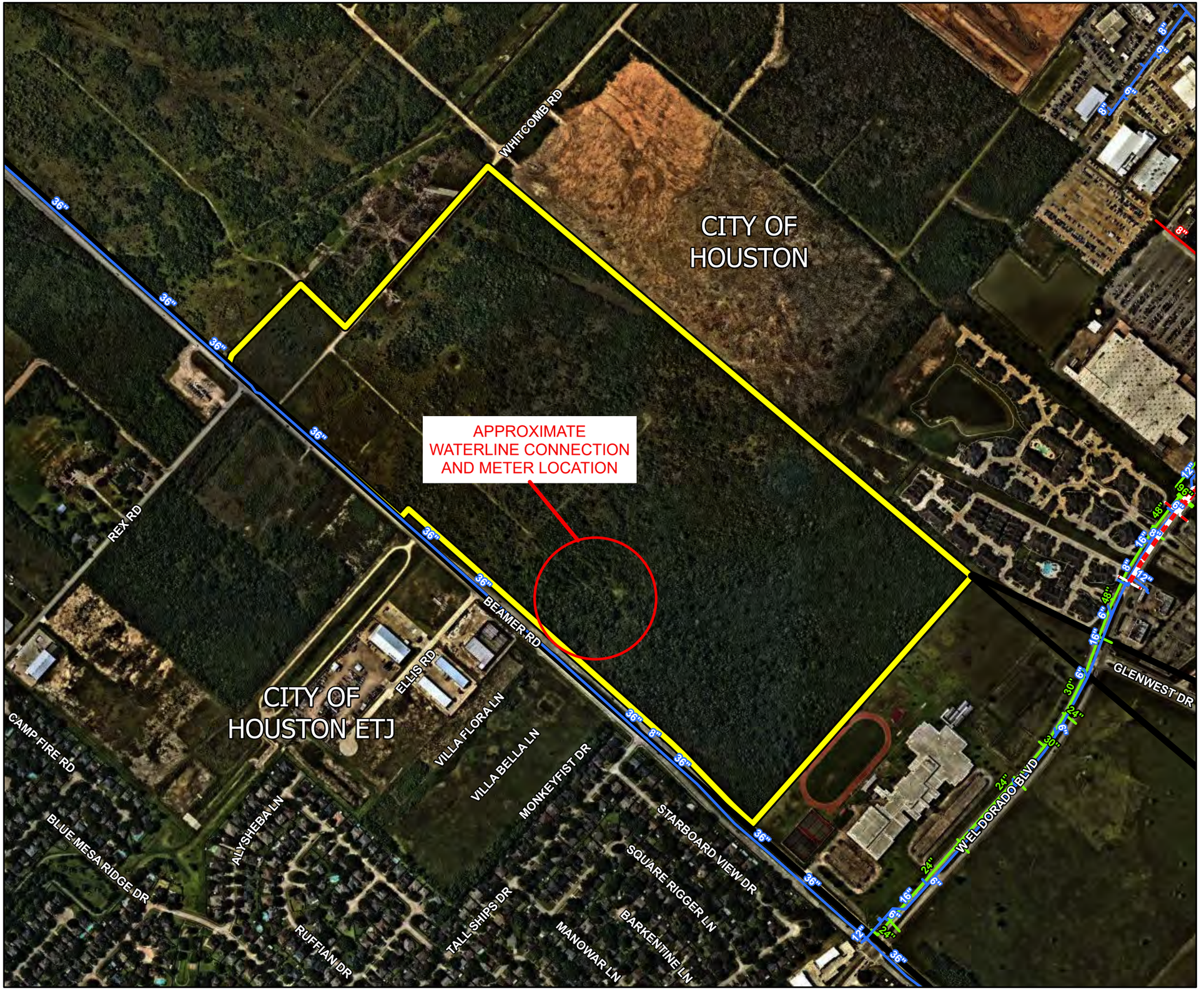

HARRIS COUNTY M.U.D. 568

Approx. 134 ac.

UTILITY EXHIBIT

CITY OF HOUSTON

NOVEMBER 2021

LEGEND

- DISCOVERY TRACT
- CITY AND ETJ LIMITS
- SANITARY FORCE MAIN
- SANITARY LINE
- WATER LINE
- STORM LINE

DATA SOURCE: UTILITY - CITY OF HOUSTON GIMS, CITY OF HOUSTON LIMITS AND ETJ - CITY OF HOUSTON

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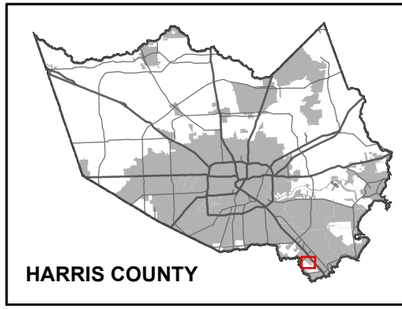

AERIAL PHOTOGRAPH DATE: NEARMAP 2021

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LJA ENGINEERING
3600 W Sam Houston Parkway S, Suite 600
Houston, Texas 77042
Phone 713.953.5200 TBPE F-1386
LJA.com

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CITY OF FRIENDSWOOD
CITY OF HOUSTON
CITY OF HOUSTON ETJ
APPROXIMATE SANITARY SEWER CONNECTION
FUTURE FORCE MAIN OR GRAVITY SANITARY SEWER TO DISCHARGE TO THE PROPOSED LIFT STATION ON BAY AREA BOULEVARD
WELL SCHOOL RD
OLD PANAMINT
WHITCOMB RD
BEAMER RD
HOPE VILLAGE RD
REX RD
ELLIS RD
CAVERN DR
WIDEROP LN
BOGAINVILLA LN
NINA DR
GLENWEST DR
EL DORADO BLVD
GATEBROOK DR
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LJA
3600 W Sam Houston Parkway S Suite 600
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LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

July 10, 2025 **VIA CERTIFIED MAIL**

Preserve at Friendswood
3200 Southwest Freeway, Suite 1870
Houston, TX 77027

Re: Wastewater Service Request for Harris County Municipal Utility District No. 568 WWTP
LJA Job No. 4013-0001

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 568 WWTP owned by Harris County Municipal Utility District No. 568, in Harris County. The proposed development will require 0.450 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Preserve at Friendswood Wastewater Treatment Facility with TPDES Permit No. WQ0016284001 has available capacity. After you have made the required indication, please email (cmavarez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Cristina Mavarez.
Graduate Engineer

CM/

□ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

□ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: _____ Title: _____

Signature: _____ Date: _____

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

July 10, 2025 VIA CERTIFIED MAIL

City of Houston
10500 Bellaire Boulevard
Houston, TX 77072

Re: Wastewater Service Request for Harris County Municipal Utility District No. 568 WWTP
LJA Job No. 4013-0001

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 568 WWTP owned by Harris County Municipal Utility District No. 568, in Harris County. The proposed development will require 0.450 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Metro Central Wastewater Treatment Facility with TPDES Permit No. WQ0010495152 has available capacity. After you have made the required indication, please email (cmavarez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Cristina Mavarez.
Graduate Engineer

CM/

□ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

□ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: _____ Title: _____

Signature: _____ Date: _____

LJA ENGINEERING

3600 W Sam Houston Pkwy S, Suite 600, Houston, Texas 77042
t 713.953.5200 LJA.com TBPE F-1386 TBPLS 10110501

August 13, 2021

VIA CERTIFIED MAIL

City of Pearland
3519 Liberty Drive
Pearland, TX 77581

Re: Wastewater Service Request for Beamer Partners, LP
LJA Job No. 4013-0001(2.0)

To Whom It May Concern:

We are currently preparing a new permit application for the discharge permit for the Harris County Municipal Utility District No. 568 WWTP owned by Beamer Partners, LP, in Harris County. The proposed development will require 0.450 MGD of wastewater service capacity. TCEQ regulations require us to contact all entities with a permitted wastewater treatment plant within three (3) miles of our plant, and to identify any available capacity at those facilities. Your referred wastewater treatment plant is within a three (3) mile radius from our facility. Please let us know if you have the extra capacity in your facility to accommodate the required flow or are willing to expand your facility to accommodate this flow.

Please respond in writing or indicating below on this letter if the Longwood Water Reclamation Facility with TPDES Permit No. WQ0010134010 has available capacity. After you have made the required indication, please email (svelez@lja.com) or mail the response back. We would appreciate a response within ten (10) days. Thank you in advance for your prompt attention regarding this matter.

Sincerely,

Sarah Velez

Sarah Velez, E.I.T.
Graduate Engineer

SV/

☐ Yes, our wastewater treatment facility has sufficient capacity to serve the proposed development. Contact Phone Number: _____

☒ No, our wastewater treatment facility does not have sufficient capacity to serve the proposed development.

Name: Rajendra Shrestha Title: City Engineer (City of Pearland)

Signature: _____ Date: 10/4/2021

W:\LAND\4013\0001 - WWTP Permit\Application\Attachments\Working\Capacity Request Letter.doc

Project Name: Harris County MUD No. 568 WWTP

Wastewater Treatment Plant
Process Design Calculations

Project #: 4013-0001

WWTP Influent Flow

			Phase 1	Phase 2	Phase 3
Average Daily Flow		gpd	120,000	225,000	450,000
Peaking Factor			4	4	4
Peak Flow		gpd	480,000	900,000	1,800,000
Equivalent Single Family Connections		ESFC	480	900	1,800
Water Usage per Connection		gal/ESFC	250	250	250

WWTP Organic Parameters

BOD_5	325	mg/L			
NH_3	64	mg/L			
BOD Loading		lbs/d	325	610	1,220

Aeration Basin Design

Process Description	Conventional Activated Sludge Process With Nitrification When Reactor Temperatures Exceed 15C				
Organic Loading Rate	35	lbs BOD5/day/1,000ft3			
Minimum Free Board	1.5	ft			
Minimum Aeration Volume		ft^3	9,293	17,425	34,849
Number of Tanks			2	3	6
Length		ft	44	44	44
Width		ft	12	12	12
Height of Basin		ft	13.2	13.2	13.2
Calculated Side Water Depth at Peak Flow			11.70	11.70	11.70
Proposed Free Board at Peak Flow		ft	1.50	1.50	1.50
Proposed Volume		ft^3	11,876	17,837	36,432

Secondary Clarifier Design

Process Desription	Activated Sludge - Secondary, Enhanced Secondary, or Secondary With Nitrification				
Maximum Surface Loading @ 2-hr Peak Flow	1,200	gpd/ft^2			
Minimum Detention Time	1.8	hrs			
Minimum SWD	10	ft			
Minimum Free Board	1	ft			
Maximum Weir Loading		gpd/lf	20,000	20,000	20,000
Maximum Vertical Velocity in Stilling Well	0.15	ft/s			
Minimum Surface Area Required		ft^2	400	750	1500
Number of Clarifiers			1	1	2
Diameter		ft	36	36	36
Proposed Weir Loading		gpd/lf	4,494	8,426	8,426
Height of Clarifier		ft	14.20	14.20	14.2
Calculated Side Water Depth		ft	10.00	10.0	10.0
Proposed Free Board at Peak Flow		ft	4.20	4.20	4.20
Proposed Surface Area		ft^2	1,018	1,018	2,036
Proposed Volume		ft^3	10,179	10,179	20,358
Proposed Detention Time		hrs	3.81	2.03	2.03
Stilling Well Diameter		ft	6.0	6.0	6.0
Proposed Stilling Well Velocity		ft/s	0.03	0.05	0.05

Chlorine Contact Basin

Minimum Contact Time	20	min

Minimum Free Board	1	ft			
Number of Basins			1	1	2
Width of Tank	12	ft	12	12	12
Height of Tank	13.2	ft	13.2	13.2	13.2
Calculated Side Water Depth at Peak Flow		ft	12.20	12.20	12.20
Calculated Free Board at Peak Flow		ft	1.00	1.00	1.00
Proposed Length of Tank	20	ft	20	20	20
Proposed Volume		ft^3	2,928	2,928	5,856
Proposed Detention Time		min	65.70	35.04	35.04

Aerobic Digester Design

Volatile Soilds Wasted (From Solids Balance)		lbs/d	212	397	794
TCEQ Loading Rate	200	$lbs/d/1{,}000ft^3$			
$V = \frac{P_{x,tss}}{Loading\ Rate}$					
Minimum Required Volume		ft^3	1,058	1,984	3,968
			4	3	3
Number of Digesters			2	3	6
Width		ft	12	12	12
Depth		ft	11.7	11.7	11.7
Length		ft	16	16	16
Proposed Volume		ft^3	4,493	6,739	13,478

Chlorine Dosage Requirements

Type of Effluent	Activated Sludge				
Chlorine Concentration	8	mg/L			
Storage of Chlorine Tanks	Temperature-Controlled Enclosure				
Low Ambient Temperature	65	°F			
Required Chlorine Dosage		lbs/d	32	60	120
Withdrawal Rate per 150-lb Chlorine Cylinder	65	lbs/d			
Withdrawal Rate per 1-ton Chlorine Cylinder	520	lbs/d			
Number of 150-lb Chlorine Cylinders per Bank			1	2	3
Number of 1-ton Chlorine Cylinders per Bank			0	0	0
Proposed Maximum Chlorine Withdrawal Rate			65	130	195

Air Requirements

Aeration Basins

Type of Diffuser	Coarse Bubble Diffuser				
Transfer Efficency Factor	0.65				
Depth of Diffuser			10.25	10.26	10.50
Submergence Correction Factor			1.49	1.49	1.42
Clean Water Transfer Efficiency	8.40%				
Wastewater Transfer Efficiency	5.46%				
Aeration Oxygen Requirement	2.05	lb O_2/lb BOD_5			
Aeration Airflowrate		scfm	732	1,368	2,614
Mixing Oxygen Requirement	20	scfm/1,000 ft3			
Mixing Airflowrate		scfm	238	357	729
Required Airflowrate		scfm	732	1,368	2,614

Aerobic Digester

Type of Diffuser	Coarse Bubble Diffuser				
Required Mixing Air Rate	20	scfm/1,000 ft3			
Required Airflowrate		scfm	89.856	134.784	269.568

Chlorine Contact Basin

Effluent DO Concentration	4	mg/L			
Initial DO Concentration*	0	mg/L			
Diffuser Capacity	150%				
Required Oxygen at Peak Flow		lb O_2/d	16.02	30.04	60.08
Required Airflowrate		scfm	11.81	22.15	44.30
Airflowrate Required by Diffusers			17.72	33.22	66.45
Minimum Airdrops (10 scfm)			2	4	7

* Minimum DO Concentration in the Aeration Basin is 2 mg/L however, to be conservative an estimated DO of 0 mg/L has been assumed entering the CCB

Airlifts

Amount Required	110	scfm			

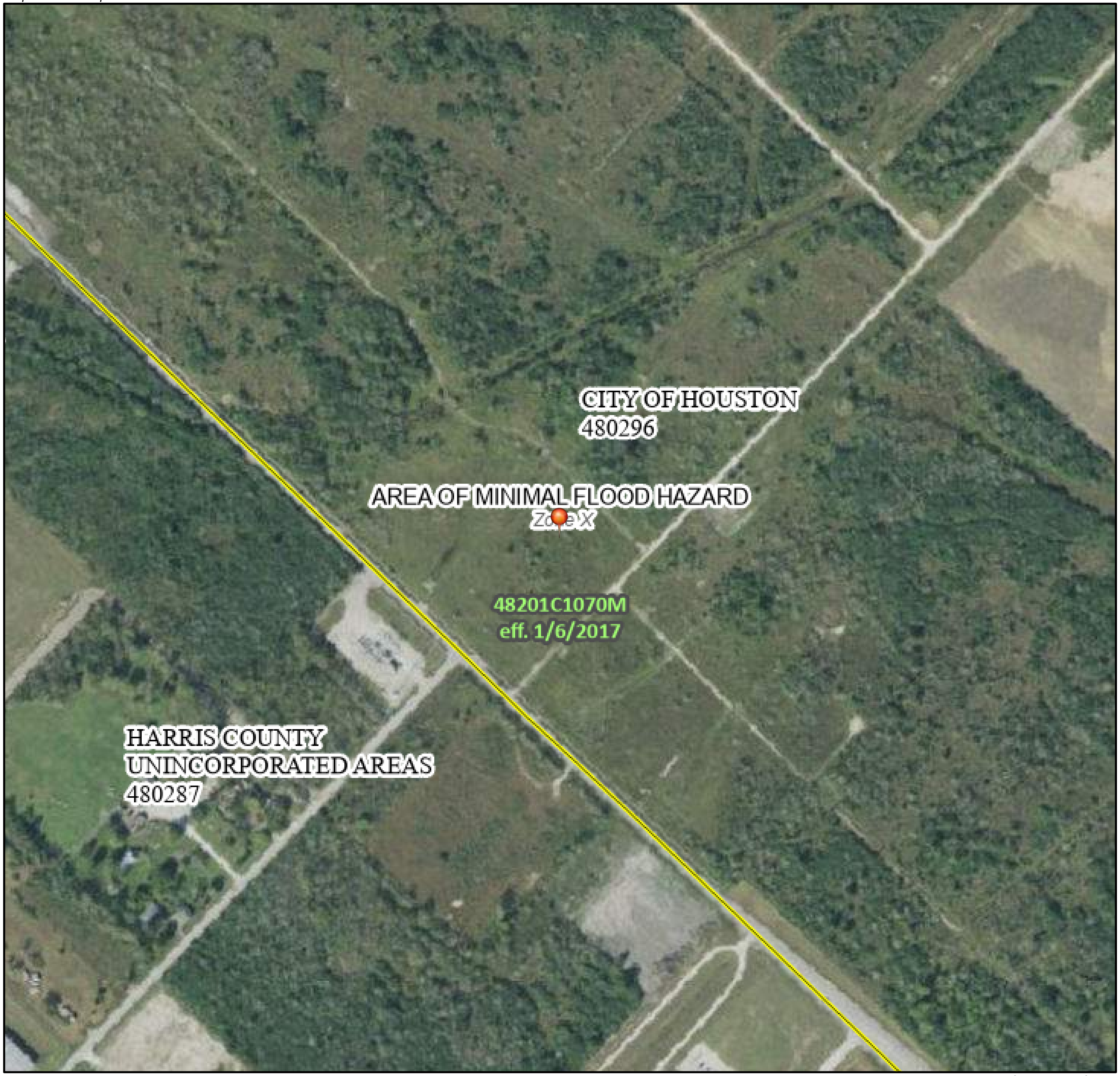
Total Air Requirement

Total Plant Required Air		scfm	944	1,635	3,038

Blower Sizing

Blower Capacity	650	scfm			
Blower Required			2	3	5
Proposed Blowers			3	4	6

1DWLRQDO)ORRG +D]DUG / FEMA) 5,50HWWH



)HHW

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RI DQQXDO FKDQFH IO
GHSWK OHVV WKDQ RQH
DUHD RI OHVV WKDQ RQ
)XWXUH &RQGLWLRQV
&KDQFH)ORRG +D]DUG
$UHD ZLWK 5HGXFHG)OR
/HYHH 6HH 1RWHV
$UHD ZLWK)ORRG 5LVN

12 6&5((1 $UHD RI 0LQLPDO)ORRG
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27+(5 $5($6 $UHD RI 8QGHWHUPLQHG

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&KDQQHO &XOYHUW RU
/HYHH 'LNH RU)ORRGZ

&URVV 6HFWLRQV ZLWK
:DWHU 6XUIDFH (OHYDWL
&RDVWDO 7UDQVHFW
%DVH)ORRG (OHYDWLRQ
/LPLW RI 6WXG\
-XULVGLFWLRQ %RXQGDU
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1R 'LJLWDO 'DWD $YDLOD
8QPDSSHG

7KH SLQ GLVSOD\HG RQ WKH
SRLQW VHOHFWHG E\ WKH XV
DQ DXWKRULWDWLYH SURSHUW

7KLV PDS FRPSOLHV ZLWK)(0$ V VWDQG
GLJLWDO IORRG PDSV LI LW LV QRW YR
7KH EDVHPDS VKRZQ FRPSOLHV ZLWK)
DFFXUDF\ VWDQGDUGV

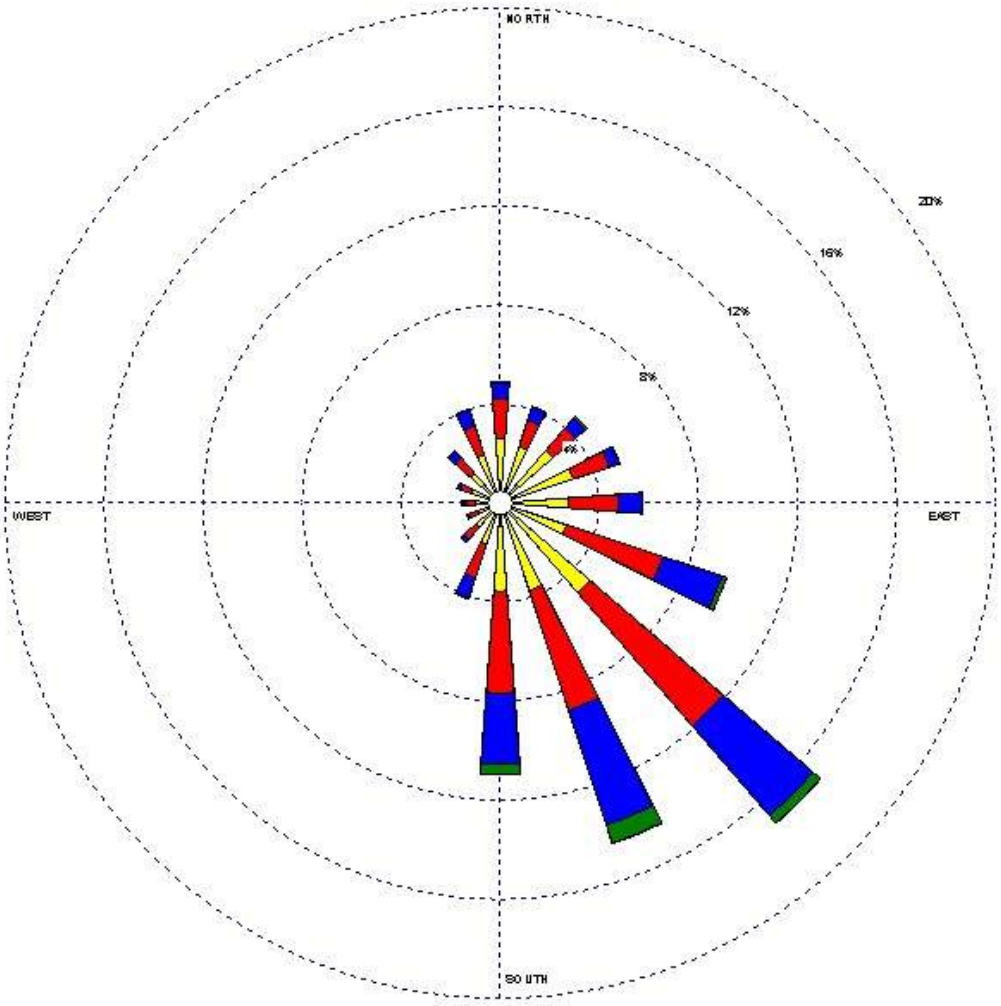
7KH IORRG KD]DUG LQIRUPDWLRQ LV GH
DXWKRULWDWLYH 1)+/ ZHE VHUYLFHV S
ZDV H[SRUWHG RQ DW DQG GRHV QRW
UHIOHFW FKDQJHV RU DPHQGPHQWV VX
WLPH 7KH 1)+/ DQG HIIHFWLYH LQIRUP
EHFRPH VXSHUVHGHG E\ QHZ GDWD RYH

7KLV PDS LPDJH LV YRLG LI WKH RQH R
HOHPHQWV GR QRW DSSHDU EDVHPDS
OHJHQG VFDOH EDU PDS FUHDWLRQ G
),50 SDQHO QXPEHU DQG),50 HIIHFWL
XQPDSSHG DQG XQPRGHUQL]HG DUHDV
UHJXODWRU\ SXUSRVHV

%DVHPDS ,PDJHU\ 6RXUFH 86*6 1DWLRQDO 0DS

WIND ROSE PLOT

Station #12960 - HOUSTON/INTERCONTINENTAL ARPT, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.34 - 5.40 1.80 - 3.34 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 4.17 m/s	CALM WINDS 5.43%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 May 1 - May 31 Midnight - 11 PM	

ATTACHMENT -20

Sludge Management Plan

Phase 1 - 0.120 MGD

Influent Design Flow	0.12	MGD
Influent BOD_5 Concentration	325	mg/L
Aerobic Digester Volume	42,004	Gal
Aeration Basin MLSS	3000	mg/L

SOLIDS GENERATED	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Pounds (lbs) Influent BOD5	325	244	163	81
Pounds (lbs) of digested dry sludge produced*	114	85	57	28
Pounds (lbs) of wet sludge produced	5692	4269	2846	1423
Gallons (Gal) of wet sludge produced	683	512	341	171

*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD5 at average temperature 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 plant headworks for treatment.

REMOVAL SCHEDULE (DAYS)	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Days between sludge removal	7	10	15	30

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. The calculated mean cell residence time (MCRT) for the digester storage volume of 42004 gal will be approximately 61 days at 100% capacity and annual average digested sludge produced of 114 ppd.

ATTACHMENT -20

Sludge Management Plan

Phase 2 - 0.225 MGD

Influent Design Flow	0.225	MGD
Influent BOD_5 Concentration	325	mg/L
Aerobic Digester Volume	63,006	Gal
Aeration Basin MLSS	3000	mg/L

SOLIDS GENERATED	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Pounds (lbs) Influent BOD5	610	457	305	152
Pounds (lbs) of digested dry sludge produced*	213	160	107	53
Pounds (lbs) of wet sludge produced	10673	8004	5336	2668
Gallons (Gal) of wet sludge produced	1280	960	640	320

*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD5 at average temperature 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 plant headworks for treatment.

REMOVAL SCHEDULE (DAYS)	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Days between sludge removal	6	8	12	24

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required.
The calculated mean cell residence time (MCRT) for the digester storage volume of 63006 gal will be approximately 49 days at 100% capacity and annual average digested sludge produced of 213 ppd.

ATTACHMENT - 20

Sludge Management Plan

Phase 3 (Ultimate) - 0.450MGD

Influent Design Flow	0.45	MGD
Influent BOD_5 Concentration	325	mg/L
Aerobic Digester Volume	126,013	Gal
Aeration Basin MLSS	3000	mg/L

SOLIDS GENERATED	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Pounds (lbs) Influent BOD5	1220	915	610	305
Pounds (lbs) of digested dry sludge produced*	427	320	213	107
Pounds (lbs) of wet sludge produced	21345	16009	10673	5336
Gallons (Gal) of wet sludge produced	2559	1920	1280	640

*Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD5 at average temperature 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 plant headworks for treatment.

REMOVAL SCHEDULE (DAYS)	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Days between sludge removal	6	8	12	24

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required.
The calculated mean cell residence time (MCRT) for the digester storage volume of 126013 gal will be approximately 49 days at 100% capacity and annual average digested sludge produced of 427 ppd.

HCMUD No. 568 Attachment 21
Monthly Projections and Corresponding Influent

Year 1	9/1/2026	10/1/2026	11/1/2026	12/1/2026	1/1/2027	2/1/2027	3/1/2027	4/1/2027	5/1/2027	6/1/2027	7/1/2027	8/1/2027
Res. Connections	30	60	90	120	150	180	210	240	270	300	330	360
Flow at 300 GPD per conn.	7,500	15,000	22,500	30,000	37,500	45,000	52,500	60,000	67,500	75,000	82,500	90,000
						1						
Year 2	9/1/2027	10/1/2027	11/1/2027	12/1/2027	1/1/2028	2/1/2028	3/1/2028	4/1/2028	5/1/2028	6/1/2028	7/1/2028	8/1/2028
Res. Connections	390	420	450	480	510	540	570	600	630	660	690	720
Flow at 300 GPD per conn.	97,500	**105,000**	112,500	120,000	127,500	135,000	142,500	150,000	157,500	165,000	172,500	180,000
												2
Year 3	9/1/2028	10/1/2028	11/1/2028	12/1/2028	1/1/2029	2/1/2029	3/1/2029	4/1/2029	5/1/2029	6/1/2029	7/1/2029	8/1/2029
Res. Connections	750	780	810	840	870	900	930	960	990	1020	1050	1080
Flow at 300 GPD per conn.	187,500	195,000	**202,500**	210,000	217,500	225,000	232,500	240,000	247,500	255,000	262,500	270,000
Year 4	9/1/2029	10/1/2029	11/1/2029	12/1/2029	1/1/2030	2/1/2030	3/1/2030	4/1/2030	5/1/2030	6/1/2030	7/1/2030	8/1/2030
Res. Connections	1110	1140	1170	1200	1230	1260	1290	1320	1350	1380	1410	1440
Flow at 300 GPD per conn.	277,500	285,000	292,500	300,000	307,500	315,000	322,500	330,000	337,500	345,000	352,500	360,000
Year 5	9/1/2030	10/1/2030	11/1/2030	12/1/2030	1/1/2031	2/1/2031	3/1/2031	4/1/2031	5/1/2031	6/1/2031	7/1/2031	8/1/2031
Res. Connections	1470	1500	1530	1560	1590	1620	1650	1680	1710	1740	1770	1800
Flow at 300 GPD per conn.	367,500	375,000	382,500	390,000	397,500	**405,000**	412,500	420,000	427,500	435,000	442,500	450,000

1.)	90% of phase 1 flow (0.120 MGD), Proposed Phase 2 (0.225 MGD) construction begins
2.)	90% of phase 2 flow (0.225 MGD), Proposed Phase 3 (0.45 MGD) construction begins