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

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Dowdell PUD (CN601229909) operates Dowdell PUD Wastewater Treatment Plant #2 (RN102330115), an activated sludge process plant. The facility is located at approximately 750 feet northwest of the intersection of Avalon Aqua Drive, in Spring, Harris County, Texas 77379. Dowdell PUD is applying to renew TPDES Permit No. WQ0011404002 (EPA I.D. No. TX 0136468) to authorize the 450,000 gallon per day facility located approximately 750 feet northwest of the intersection of Avalon Aqua Drive and Lozar Drive, in Haris County, Texas 77379 to discharge treated domestic wastewater into Harris County Flood Control District Unit No. M114-00-00.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), nitrate nitrogen (NO3-N), and Escherichia coli. Domestic sewage is treated by a fine screen for preliminary treatment, complete mix, activated sludge biological nitrification for carbon and

ammonia oxidation, clarification for suspended solids removal, chlorine contact basin for disinfection, aerobic digestion.

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

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

Dowdell PUD (CN601229909) opera Dowdell PUD La Planta de Tratamiento de Aguas Residuales #2 RN102330115, una Planta de Proceso de Lodos Activos. La instalación está ubicada en aproximadamente 750 pies al noroeste de la interseccion de Avalon Aqua Drive, en Spring, Condado de Harris, Texas 77379. Dowdell PUD está solicitando renovar el permiso TPDES No. WQ0011404002 (EPA I.D. No. TX 0136468) para autorizar la instalación de 450,000 galones por día ubicada aproximadamente a 750 pies al noroeste de la intersección de Avalon Aqua Drive y Lozar Drive, en el condado de Harris, Texas 77379 para descargar aguas residuales domésticas tratadas en la Unidad No. M114-00-00 del Distrito de Control de Inundaciones del Condado de Harris.

Se espera que las descargas de la instalación contengan 5 Dias Demanda bioquímica carbonosa de oxígeno (CBOD5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N), nitrógeno nitrato (NO3-N) y Escherichia coli. Aguas residuales Domesticas. está tratado por mediante tamiz fino para tratamiento preliminar, mezcla completa, nitrificación biológica de lodos activados para oxidación de carbón y amoniaco, clarificación para eliminación de sólidos en suspensión, cubeta de contacto con cloro para desinfección, digestión aeróbica.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0011404002

APPLICATION. Dowdell Public Utility District, 2727 Allen Parkway, Suite 1100, Houston, Texas 77019, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011404002 (EPA I.D. No. TX0136468) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 900,000 gallons per day. The domestic wastewater treatment facility is located west of Lozar Drive, approximately 750 feet northwest of the intersection of Lozar Drive and Avalon Aqua Way, near the city of Spring, in Harris County, Texas 77379. The discharge route is from the plant site to a detention pond system; thence to a 48-inch storm sewer pipe; thence to a Harris BCounty Flood Control District Ditch; thence to Willow Creek; thence to Spring Creek. TCEQ received this application on October 31, 2024. The permit application will be available for viewing and copying at Barbara Bush Branch Library, 6817 Cypesswood Drive, Spring, 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=-95.537777,30.079722&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.**

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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 Dowdell Public Utility District at the address stated above or by calling Mr. Jeffrey Vogler, P.E., Vogler & Spencer Engineering, at 713-782-0042.

Issuance Date: November 25, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0011404002

SOLICITUD. Dowdell Public Utility District, 2727 Allen Parkway, Suite 1100, Houston, Texas 77019**,** ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011404002 (EPA I.D. No. TX0136468) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 900,000 galones por día. La planta está ubicada al oeste de Lozar Drive, aproximadamente a 750 pies al noroeste de la intersección de Lozar Drive y Avalon Aqua Way, cerca la ciudad de Spring en el Condado de Harris, Texas 77379. La ruta de descarga es del sitio de la planta hacia un sistema de estanque de retención; de allí a una tubería de alcantarillado pluvial de 48 pulgadas; de allí a una zanja del Distrito de Control de Inundaciones del Condado de Harris; luego Willow Creek; y finalmente a Spring Creek. La TCEQ recibió esta solicitud el 31 de octubre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en la Biblioteca Barbara Bush, 6817 Cypresswood Drive, Spring, en el condado de Harris, Texas, antes de la fecha en que este aviso se publique en el periódico. La solicitud 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=95.537777,30.079722&level=18

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

comentarios públicos.

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

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

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

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

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

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional de Dowdell Public Utility District a la dirección indicada arriba o llamando a Sr. Jeffrey Vogler, P.E., Vogler & Spencer Engineering, Inc., al 713-782-0042.

Fecha de emisión 25 de noviembre de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Dowdell Public Utility District

PERMIT NUMBER (If new, leave blank): WQ00 11404002

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 _____

ADMINISTRATIVE REPORT 1.0

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: 020822

Check/Money Order Amount: 1,615.00

Name Printed on Check: Vogler & Spencer Engineering

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional 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 11404002

EPA I.D. (TPDES only): TX 0136468

Expiration Date: May 14, 2025

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?

Dowdell Public Utility District

(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: 601229909

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: Nelson, Jerry L.

Title: Board President Credential: Click to enter text.

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

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

N/A

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. 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: Mr. Last Name, First Name: Vogler, Jeffery W.

Title: District Engineer Credential: P.E.

Organization Name: Vogler & Spencer Engineering

Mailing Address: 777 Eldridge Parkway, Suite 500 City, State, Zip Code: Houston, Texas, 77079

Phone No.: 713-782-0042 E-mail Address: jvogler@vs-eng.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Goodall, G. Taylor

Title: Attorney Credential: Click to enter text.

Organization Name: Smith Murdaugh Little & Bonham, LLP

Mailing Address: 2727 Allen Parkway, Suite 1100 City, State, Zip Code: Houston, Texas, 77019

Phone No.: 713-652-6500 E-mail Address: tgoodall@smithmur.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: Mr. Last Name, First Name: Goodall, Taylor

Title: Attorney Credential: Click to enter text.

Organization Name: Smith Murdaugh Little & Bonham, LLP

Mailing Address: 2727 Allen Parkway, Suite 1100 City, State, Zip Code: Houston, Texas ,77019

Phone No.: 713-652-6500 E-mail Address: tgoodall@smithmur.com

B. Prefix: Mr. Last Name, First Name: Vogler, Jeffery W.

Title: District Engineer Credential: P.E.

Organization Name: Vogler & Spencer Engineering

Mailing Address: 777 Eldridge Parkway, Suite 500 City, State, Zip Code: Houston, Texas, 77079

Phone No.: 713-782-0042 E-mail Address: jvogler@vs-eng.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: Last Name, First Name: Davis, Dana

Title: Bookkeeper Credential: Click to enter text.

Organization Name: Myrtle Cruz Inc.

Mailing Address: 3401 Louisiana Street, #400 City, State, Zip Code: Houston, Texas, 77002

Phone No.: 713-759-1368 E-mail Address: dana_davis@mcruz.com

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

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

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

Title: Operator Credential: Click to enter text.

Organization Name: M. Marlon Ivy & Associates

Mailing Address: 19333 Haude Rd City, State, Zip Code: Spring, Texas, 77388

Phone No.: 281-651-1618 E-mail Address: cking@mmia.co

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Vogler, Jeffery W.

Title: District Engineer Credential: P.E.

Organization Name: Vogler & Spencer Engineering

Mailing Address: 777 Eldridge Parkway, Suite 500 City, State, Zip Code: Houston, Texas, 77079

Phone No.: 713-782-0042 E-mail Address: jvogler@vs-eng.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: Mr. Last Name, First Name: Vogler, Jeffery W.

Title: District Engineer Credential: P.E.

Organization Name: Vogler & Spencer Engineering

Mailing Address: 777 Eldridge Parkway, Suite 500 City, State, Zip Code: Houston, Texas, 77079

Phone No.: 713-782-0042 E-mail Address: jvogler@vs-eng.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: Barbara Bush Library

Location within the building: Resource/Reference Librarian Desk

Physical Address of Building: 6817 Cypresswood Dr.

City: Spring County: Harris

Contact (Last Name, First Name): Davis, Margaret

Phone No.: 281-376-4610 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: Click to enter text.

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** 108374455

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):

Dowdell PUD Wastewater Treatment Plant 2

C. Owner of treatment facility: Dowdell Public Utility District

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: N/A

Title: N/A Credential: Click to enter text.

Organization Name: Dowdell Public Utility District

Mailing Address: 2727 Allen Parkway, Suite 1100 City, State, Zip Code: Houston, Texas 77019

Phone No.: 713-652-6500 E-mail Address: tgoodall@smithmur.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Spring

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: 3

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: N/A

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: WQ0011404002

Applicant: Dowdell Public Utility District

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): Jerry L. Nelson

Signatory title: Board President

Signature: _____ Date: 9-19-24

(Use blue ink)

Subscribed and Sworn to before me by the said Jerry Nelson

on this nineteenth day of September, 20 24.

My commission expires on the 21st day of July, 20 27.

_____

Notary Public

[SEAL]

Harris

County, Texas

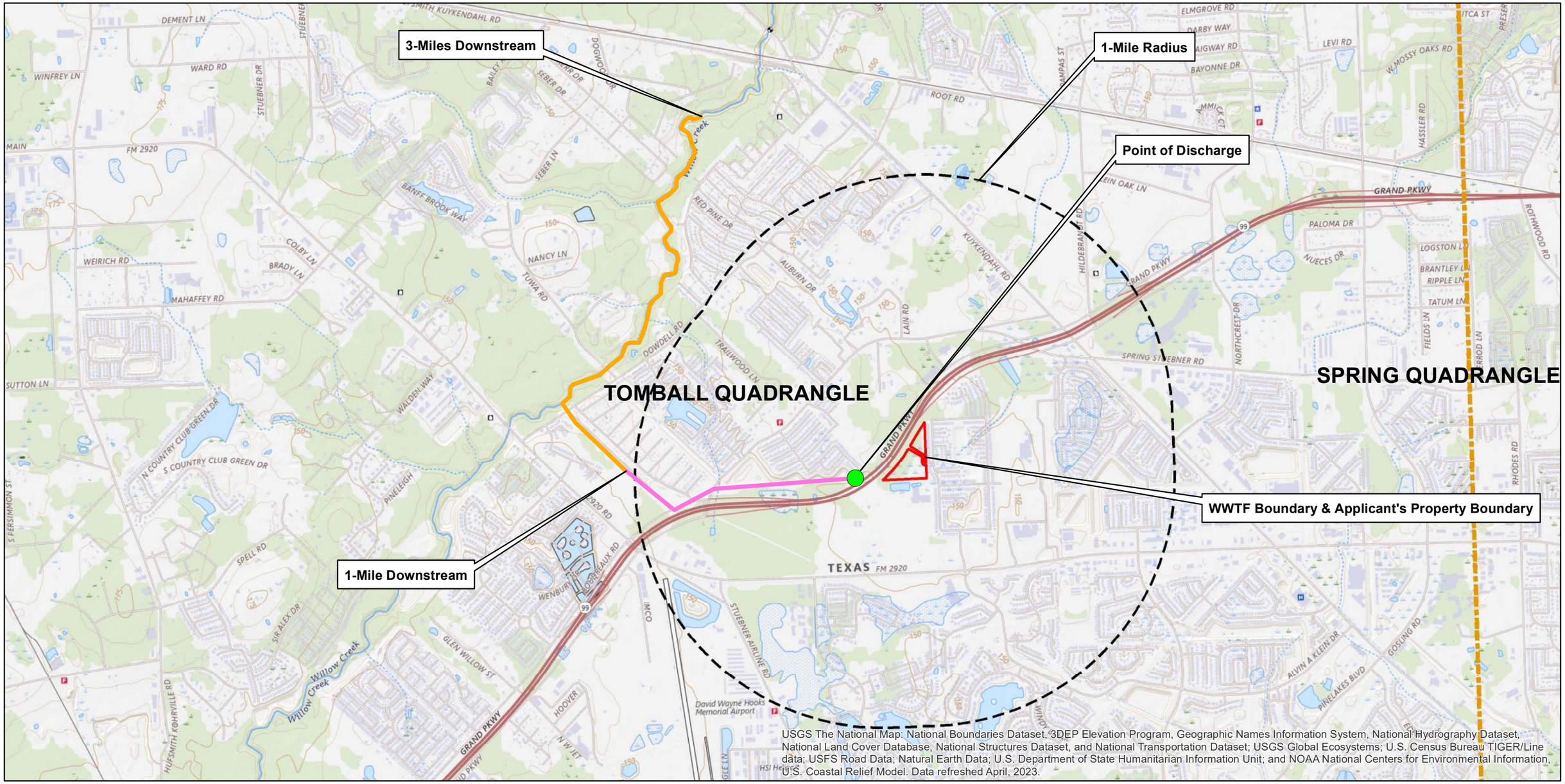
Austin T. Reed
MY COMMISSION EXPIRES
July 21, 2027
NOTARY ID: 134466344

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: 4



Legend

WWTF 2 Boundary

N

Feet

0 5,000 10,000

DOWDELL PUD WWTF 2 USGS Topo

VOGLER & SPENCER ENGINEERING

SOURCES: VSE, 2023; TCEQ 2023; HCFD

F:\30000 Dowdell PUD\000-0\GIS\Maps\ArcMap\Dowdell WWTF 2 USGS.mxd 9/17/2024 5:20:12 PM

TECHNICAL REPORT 1.0

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): 0.45

2-Hr Peak Flow (MGD): 1.80

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 0.90

2-Hr Peak Flow (MGD): 3.60

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

D. Current Operating Phase

Provide the startup date of the facility: January 2023

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.**

Preliminary Treatment – Fine Screen, Activated sludge – Complete Mix, Secondary Clarification, Chlorination for Disinfection, Aerobic digestion - Air

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)
Aeration Basin	2 (4 final)	35’ Length x 25’ Width x 15’ Depth
Digester	4 (8 final)	21.125’ Length x 20’ Width x 15’ Depth
Clarifier	2 (3 final)	45’ Diameter x 12.5’ Depth
Disinfection Basin	2 (3 final)	20’ Length x 12’ Width x 9.5’ Depth

C. Process Flow Diagram

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

Attachment: 5

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

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

- Latitude: 30.079141
- Longitude:-95.541480

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

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

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

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and

- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: 6

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

Dowdell Public Utility District, a mix of commercial and residential development.

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
D**owdell Public Utility District**	Dowdell Public Utility District	**Publicly Owned**	
		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: July 19, 2018

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.

See Attachment 7

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.
Attachment 8

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	3.61 FF			Grab	8/8/24 11:30
Total Suspended Solids, mg/l	1.16			Grab	8/8/24 11:30
Ammonia Nitrogen, mg/l	0.0440			Grab	8/8/24 11:30
Nitrate Nitrogen, mg/l	14.4			Grab	8/8/24 11:30
Total Kjeldahl Nitrogen, mg/l	<1.00 U			Grab	8/8/24 11:30
Sulfate, mg/l	22.1			Grab	8/8/24 11:30
Chloride, mg/l	190			Grab	8/8/24 11:30
Total Phosphorus, mg/l	9.90			Grab	8/8/24 11:30
pH, standard units	7.92			Grab	8/8/24 11:30
Dissolved Oxygen*, mg/l	7.25			Grab	8/8/24 11:30
Chlorine Residual, mg/l	2.27			Grab	8/8/24 11:30
E.coli (CFU/100ml) freshwater	< 1.00 U			Grab	8/8/24 11:30
Entercocci (CFU/100ml) saltwater					8/8/24 11:30
Total Dissolved Solids, mg/l	740			Grab	8/8/24 11:30
Electrical Conductivity, µmohs/cm, †	1330			Grab	8/8/24 11:30
Oil & Grease, mg/l	<5.00 U			Grab	8/8/24 11:30
Alkalinity ($CaCO_3$)*, mg/l	260			Grab	8/8/24 11:30

*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: Cameron King

Facility Operator's License Classification and Level: TCEQ Wastewater Treatment Operator A

Facility Operator's License Number: WW0055247

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
Distribution & Marketing-Composting	Off-site Third-Party Handler or Preparer	Not Applicable		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: Triple S Compost

TCEQ permit or registration number: 42042

County where disposal site is located: Montgomery

E. Transportation method

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

Name of the hauler: GFL Environmental

Hauler registration number: 23833

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 64)

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: Sandra Noe

Title: Project Manager

Signature: Sandra Noe

Date: 10/16/2024

WORKSHEET 2.0

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: Willow Trace Drainage Detention System

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.

Harris County Flood District Unit M114-00-00; Willow Creek (Segment No. 1008H)

D. Downstream characteristics

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

☒ Yes ☐ No

If yes, discuss how.

The discharge route begins in a detention facility operated by Dowdell PUD, then flows by pipe or culvert to an open concrete channel operated by Harris County Flood Control District; and then flows to Willow Creek, which is a natural channel.

E. Normal dry weather characteristics

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

The detention basin is a dry-bottom facility with no observed flow. Flow in M114-00-00 and Willow Creek was moderate with some light turbidity. No odor detected.

Date and time of observation: 10/17/2024 @ 4 pm

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
☐ Upstream discharges
☐ Septic tanks
☒ Urban runoff
☐ Agricultural runoff
☐ 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: Drainage

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

WORKSHEET 6.0

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: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

N/A

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.

ATTACHMENT 1

TCEQ CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

☐ 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 601229909		**RN 108374455**

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:*

Dowdell Public Utility District

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 ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: Municipal Utility District

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 ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

Smith Murdaugh, Little & Bonham, L.L.P.
2727 Allen Parkway, Suite 1100

City	Houston	**State**	TX	**ZIP**	77019	**ZIP + 4**	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(713) 652-6500		(713) 652-6515

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ 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 Core 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.)*

Dowdell Public Utility District

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

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

25. Description to Physical Location:	west of Lozar Drive, approx. 750 feet northwest of the intersection of Lozar Drive and Avalon Aqua Way, Harris County, Texas 77379				
26. Nearest City			**State**	**Nearest ZIP Code**	
Spring			TX	77379	

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	30.796		**28. Longitude (W) In Decimal:**	-95.5377	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	47	45.6N	95	32	15.72W

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.)*

Wasterwater Treatment Facility

34. Mailing Address:	**c/o Smith Murdaugh Little & Bonham LLP**						
	2727 Allen Parkway, Suite 1100						
	City	**Houston**	**State**	**TX**	**ZIP**	**77019**	**ZIP + 4**
35. E-Mail Address:	**tgoodall@smirthmur.com**						

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(713) 652-6500		**(713) 652-6515**

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
				1010592
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Mehdi Kettani	**41. Title:**	E.I.T.

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(713 **)** 782-0042		**( )** -	mkettani@vs-eng.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:	Vogler & Spencer Engineering	**Job Title:**	E.I.T.
Name *(In Print):*	Mehdi Kettani	**Phone:**	**(** 713 **)** 782- **0042**
Signature:	Mehdi Kettani	**Date:**	9/16/2024

ATTACHMENT 2

PLAIN LANGUAGE SUMMARY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Dowdell PUD (CN601229909) operates Dowdell PUD Wastewater Treatment Plant #2 (RN102330115), an activated sludge process plant. The facility is located at approximately 750 feet northwest of the intersection of Avalon Aqua Drive, in Spring, Harris County, Texas 77379. Dowdell PUD is applying to renew TPDES Permit No. WQ0011404002 (EPA I.D. No. TX 0136468) to authorize the 450,000 gallon per day facility located approximately 750 feet northwest of the intersection of Avalon Aqua Drive and Lozar Drive, in Haris County, Texas 77379 to discharge treated domestic wastewater into Harris County Flood Control District Unit No. M114-00-00.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), nitrate nitrogen (NO3-N), and Escherichia coli. Domestic sewage is treated by a fine screen for preliminary treatment, complete mix, activated sludge biological nitrification for carbon and

ammonia oxidation, clarification for suspended solids removal, chlorine contact basin for disinfection, aerobic digestion.

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

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

Dowdell PUD (CN601229909) opera Dowdell PUD La Planta de Tratamiento de Aguas Residuales #2 RN102330115, una Planta de Proceso de Lodos Activos. La instalación está ubicada en aproximadamente 750 pies al noroeste de la interseccion de Avalon Aqua Drive, en Spring, Condado de Harris, Texas 77379. Dowdell PUD está solicitando renovar el permiso TPDES No. WQ0011404002 (EPA I.D. No. TX 0136468) para autorizar la instalación de 450,000 galones por día ubicada aproximadamente a 750 pies al noroeste de la intersección de Avalon Aqua Drive y Lozar Drive, en el condado de Harris, Texas 77379 para descargar aguas residuales domésticas tratadas en la Unidad No. M114-00-00 del Distrito de Control de Inundaciones del Condado de Harris.

Se espera que las descargas de la instalación contengan 5 Dias Demanda bioquímica carbonosa de oxígeno (CBOD5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N), nitrógeno nitrato (NO3-N) y Escherichia coli. Aguas residuales Domesticas. está tratado por mediante tamiz fino para tratamiento preliminar, mezcla completa, nitrificación biológica de lodos activados para oxidación de carbón y amoniaco, clarificación para eliminación de sólidos en suspensión, cubeta de contacto con cloro para desinfección, digestión aeróbica.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose “operates” in this section for existing facility applications or choose “proposes to operate” for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose “is” for an existing facility or “will be” for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

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.

Example

Individual Industrial Wastewater Application

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 are not federal enforceable representations of the permit application.

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

ATTACHMENT 3

HCFCD AUTHORIZATION

HARRIS COUNTY FLOOD CONTROL DISTRICT

October 1, 2024

SENT VIA ELECTRONIC MAIL: NO HARD COPY TO FOLLOW

Mr. Mehdi Kettani, E.I.T.
Vogler & Spencer Engineering
777 North Eldridge Parkway, Suite 500
Houston, Texas 77079

RE: Wastewater Discharge from Dowdell Public Utility District
Discharge of Treated Sewage Effluent: 0.45 MGD
TCEQ Discharge Permit: WQ0011404002
HCFCD Unit No. M114-00-00

Dear Mr. Kettani:

The Harris County Flood Control District (HCFCD) has received your application for discharge into a Flood Control facility. The flow path of the effluent is to HCFCD owned Rights-of-Way, channel M114-00-00. HCFCD will accept discharge into M114-00-00 from the location indicated. Harris County's waterways are impaired for bacteria (E.coli), therefore, HCFCD requests discharges from the Dowdell Public Utility District be monitored for bacteria (E.coli) at effluent limits of 63 MPN/100ml with the other required parameters. Your application is being processed and we have no objection at this time, to the discharge of treated wastewater effluent into or toward HCFCD Unit No. M114-00-00.

Please note, if this will involve new construction, that construction plans designed in accordance with HCFCD's criteria and other adopted policies must be submitted for review to the Watershed Management Dept.

If you have any questions or need additional information, please feel free to call me at 346-286-4181.

Sincerely,

Danielle Woods
Environmental Quality Project Manager

DW:rop

Attachment: Copy of Application

cc: Jeremy Phillips, HCFCD
Project File

S:\Planningdiv\Environmental Services\Environmental Quality\Programs\Water Quality\WWTP_Response Letters\WWTP 2024\24-L10-01voglerspencerengineering M114-00-00 WWTP Discharge Approval Letter Dowdell Public Utility District.Docx

VOGLER & SPENCER
ENGINEERING

777 North Eldridge Parkway, Suite 500
Houston, TX 77079
713.782.0042 | Fax 713.782.5337
info@vs-eng.com
vs-eng.com

September 17, 2024

Danielle Woods
Harris County Flood Control District
9900 Northwest Freeway
Houston, TX 77092

Re: Discharge Authorization for Dowdell Public Utility District Wastewater Treatment Facility 2
VSE. Project No.: 30000-500-1-PMT (p)
HCFCD Project ID: M114-00-00

Dear Ms. Woods:

Vogler & Spencer Engineering, Inc. (VSE) is currently preparing an application to renew the TPDES permit for the Dowdell Public Utility District Wastewater Treatment Facility 2. The plant discharges treated sewage effluent into Harris County Flood Control Ditch M114-00-00. TCEQ requires proof of authorization for this discharge.

The following information is attached:

1. U.S.G.S map showing the effluent discharge route for one mile downstream from the point of discharge
2. Most recent monitoring data

I would appreciate your furnishing of written proof of authorization for this discharge as soon as possible. Should you have any questions, please call me at 713-782-0042. Thank you for your assistance.

Sincerely,

Mehdi Kettani

Mehdi Kettani, E.I.T.
Project Engineer
Vogler & Spencer Engineering, Inc.
Texas Professional Engineering Firm Registration No. F148

MK

Encl.: Application for Discharge to County or District Facility
U.S.G.S Map of Effluent Discharge Route
Monitoring data

HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT
APPLICATION FOR DISCHARGE TO COUNTY OR DISTRICT FACILITY

1. APPLICANT INFORMATION (Please print or type)
Owner/Applicant

Name Dowdell Public Utility District

Applicant Mailing Address 2727 Allen Parkway, Suite 1100 City Houston State TX Zip 77019

Home Phone 713-652-6500 Daytime Phone _____ Fax _____ Pager _____

Agent/Consultant Name Vogler & Spencer Engineering Phone 713-782-0042

Agent's Mailing Address 777 N Eldridge Parkway Suite 500 Houston State TX Zip 77079

2. LOCATION OF PROPERTY

Subdivision _____ Section _____ Block _____ Lot _____ Reserve _____

Street Address 750 ft NW of Avalon Aqua Dr & Lozar Dr City Spring State TX Zip 77379

Survey Name _____ Abstract Number _____ Acreage _____

Property Tax Account Number 1283860060001 - _____ - _____ - _____

3. DISCHARGE LOCATION
Attach the following documents in support of the application

A. Detailed Map Showing Discharge Point [X] Key Map Page [ ] attached GPS Latitude 30.079141

B. Detailed Map Showing downstream Path for one mile after discharge point [X] Longitude -95.54148

4. DISCHARGE PARAMETERS

A. Type

[X] Treated Sewage Effluent [ ] Treated Stormwater

[ ] Potable Water [ ] _____

B. Quantity: 0.45 Millions Gallons Per Day ([X] Initial [ ] Intermediate [ ] Final) Check One

C. Quality (Either Current or Proposed)

BOD:= 10 mg/l TSS:= 10 mg/l

NH_3-N= 3 mg/l Disinfection Type = Chlorine

O_2 = 4 mg/l Source [X] Permit Application

Bacteria (Ecoli or Enterococcus) = 63 CFU/100 ml [ ] Other: _____ Specify

5. OTHER PERMITS/APPLICATION:

[X] TCEQ Discharge Permit # WQ0011404002 [ ]New [X] Renewal [ ] Amendment

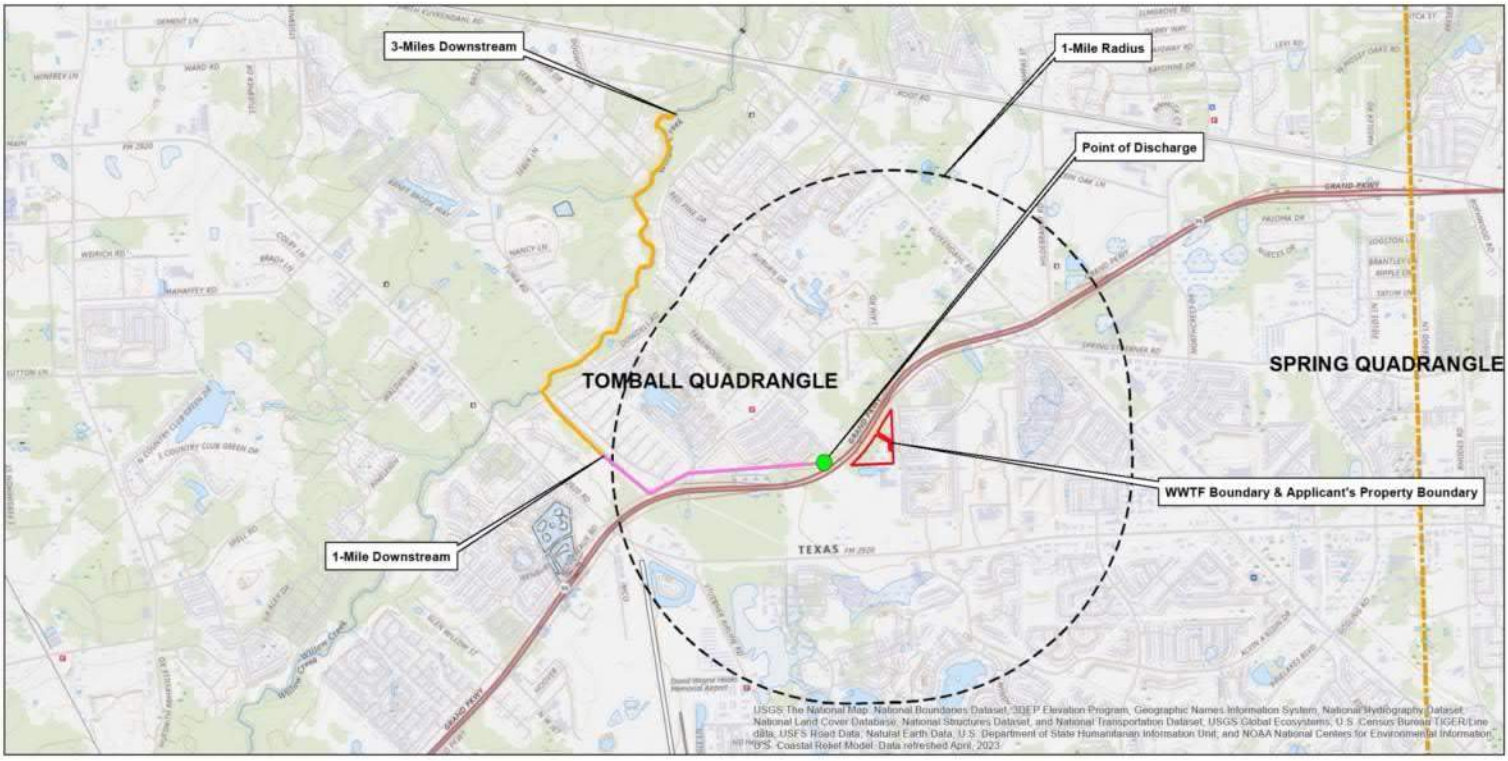
[ ] Harris County Notice # _____ [ ] Harris County Development Permit # _____

[ ] Other: _____

I, Mehdi Kettani, the undersigned have carefully reviewed this application and my answers to all questions. To the best of my knowledge, the answers are all true and correct.

SIGNATURE of Applicant/Agent/Consultant or Attorney Mehdi Kettani Date 9/17/2024

Receiving		Date Application Received
Applicant Number	Planchecker	
Request No.	Approved By	
Project ID No.	Date	
Clerk & Date	Vio No.	



Legend

WWTF 2 Boundary

N

Feet
0 5,000 10,000

DOWDELL PUD WWTF 2 USGS Topo

VOGLER & SPENCER ENGINEERING

SOURCES: VSE, 2023; TCEQ 2023; HCFCD
F:\30000 Dowdell PUD\0000-00\GIS\Maps\ArcMap\Dowdell WWTF 2 USGS.mxd 9/17/2024 5:20:12 PM

130 S. Trade Center Parkway, Conroe TX 77385
Tel: (936) 321-6060
Email: lab@nwdls.com
www. NWDLS.com

August 20, 2024

Laboratory Report

Josh Maas
M.M.I.A., Inc.
P.O. Box 9
Spring, TX 77383

Report ID: 20240820144554AEN

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Aundra Noe
Project Manager

130 S. Trade Center Parkway, Conroe TX 77385
Tel: (936) 321-6060
Email: lab@nwdls.com
www. NWDLS.com
TCEQ TX-C24-00185

M.M.I.A., Inc.
P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Sample Results

Client Sample ID: Outfall 001
Lab Sample ID: 24H2249-01
Dowdell WWTP #2 - Permit Renwal [none]

Sample Matrix: Waste Water
Date Collected: 08/08/2024 11:30
Collected by: George Whalen

Method	Analyte	*	Result Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry										
SM 2320 B	Alkalinity as CaCO3	A	260	mg/L	1	10.0	10.0	BHH1268	08/09/2024 10:09	FPN
SM 5210 B	Carbonaceous BOD (CBOD)	A	3.61FF	mg/L	13514	2.03	2.03	BHH1280	08/14/2024 09:59	GOG
SM 2510 B	Conductivity	A	1330	umhos/cm @ 25 °C	1	2.00	2.00	BHH1268	08/09/2024 10:09	FPN
EPA 350.1	Ammonia as N	A	0.0440	mg/L	1	0.0140	0.0400	BHH1361	08/12/2024 13:27	AMM
EPA 1664A	n-Hexane Extractable Material (O&G)	A	<5.00U	mg/L	1	5.00	5.00	BHH1281	08/09/2024 08:57	IDC
EPA 300.0	Sulfate	A	22.1	mg/L	1	0.0341	1.00	BHH1186	08/09/2024 03:07	AGZ
SM 2540 C	Residue-filterable (TDS)	A	740	mg/L	1	10.0	10.0	BHH1272	08/12/2024 10:53	JRU
SM 4500-NH3 C	Total Kjeldahl Nitrogen - (TKN)	A	<1.00U	mg/L	1	0.100	1.00	BHH1271	08/12/2024 13:02	ENR
SM 2540 D	Residue-nonfilterable (TSS)	A	1.16	mg/L	1	1.00	1.00	BHH1277	08/12/2024 12:22	BP
Microbiology										
SM 9223 B (Colilert Quanti-Tray)	Escherichia coli (E. coli)	A	<1.00U	MPN/100 mL	1	1.00	1.00	BHH1199	08/09/2024 15:16	JVG
Field										
Calc	Flow Field	N	7.54E-6	MGD	1	0.00	0.00	BHH1292	08/08/2024 11:30	GBW
SM 4500-H+ B	pH	A	7.92	pH Units @ 25 °C	1	1.00	1.00	BHH1292	08/08/2024 11:30	GBW
SM 4500-Cl G	Total Residual Chlorine	A	2.27	mg/L	1	0.25	0.25	BHH1292	08/08/2024 11:30	GBW

* A = Accredited, N = Not Accredited or Accreditation not available

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P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Sample Results
(Continued)

Client Sample ID: Outfall 001
Lab Sample ID: 24H2249-01RE1
Dowdell WWTP #2 - Permit Renwal [none]

Sample Matrix: Waste Water
Date Collected: 08/08/2024 11:30
Collected by: George Whalen

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry											
EPA 300.0	Chloride (Rerun)	A	190		mg/L	5	0.172	5.00	BHH1420	08/10/2024 06:37	EM
EPA 300.0	Nitrate as N (Rerun)	A	14.4		mg/L	5	0.0710	0.500	BHH1420	08/10/2024 06:37	EM
EPA 365.1	Total Phosphorus (Rerun)	A	9.90		mg/L	1	0.117	0.200	BHH2009	08/15/2024 19:35	GJG

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Reported:
08/20/2024 14:45

Sample Results
(Continued)

Client Sample ID: Outfall 001
Lab Sample ID: 24H2249-01RE2
Dowdell WWTP #2 - Permit Renwal [none]

Sample Matrix: Waste Water
Date Collected: 08/08/2024 11:30
Collected by: George Whalen

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry											
EPA 300.0	Sulfate (Rerun)	A	22.0		mg/L	1	0.0341	1.00	BHH1717	08/13/2024 15:50	AGZ

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Reported:
08/20/2024 14:45

Sample Results
(Continued)

Client Sample ID: Outfall 001
Lab Sample ID: 24H2888-01
Dowdell WWTP #2 - Permit Renewal Recollect [none]

Sample Matrix: Waste Water
Date Collected: 08/13/2024 7:20
Collected by: Fernando Alvarez

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Field											
Hach 10360	DO Field	N	7.25		mg/L	1	1.00	1.00	BHH1970	08/13/2024 07:20	FCA

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P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1186 - EPA 300.0										
Duplicate (BHH1186-DUP1)		**Source: 24H2129-01**			Prepared & Analyzed: 8/8/2024					
Sulfate	3.97		1.00	mg/L		3.97			0.0756	15
Chloride	38.9		1.00	mg/L		38.9			0.0617	15
Nitrate as N	0.127		0.100	mg/L		0.128			0.784	15
Duplicate (BHH1186-DUP2)		**Source: 24H1347-01**			Prepared & Analyzed: 8/8/2024					
Sulfate	15.5		1.00	mg/L		15.6			0.283	15
Nitrate as N	<0.100	U	0.100	mg/L		<0.100				15
Chloride	89.8		10.0	mg/L		90.6			0.909	15
MRL Check (BHH1186-MRL1)					Prepared & Analyzed: 8/8/2024					
Nitrate as N	0.0990	U	0.100	mg/L	0.100		99.0	50-150		
Chloride	1.11		1.00	mg/L	1.00		111	50-150		
Sulfate	1.11		1.00	mg/L	1.00		111	50-150		
Matrix Spike (BHH1186-MS1)		**Source: 24H2129-01**			Prepared & Analyzed: 8/8/2024					
Chloride	53.2	J1	1.11	mg/L	11.1	38.9	129	80-120		
Nitrate as N	2.15		0.111	mg/L	2.22	0.128	90.8	80-120		
Sulfate	24.8		1.11	mg/L	22.2	3.97	93.6	80-120		
Matrix Spike (BHH1186-MS2)		**Source: 24H1347-01**			Prepared & Analyzed: 8/9/2024					
Chloride	111	J1	11.1	mg/L	11.1	90.6	183	80-120		
Sulfate	37.6		1.11	mg/L	22.2	15.6	99.0	80-120		
Nitrate as N	2.08		0.111	mg/L	2.22	<0.111	93.7	80-120		
Batch: BHH1268 - Alkalinity										
Blank (BHH1268-BLK1)					Prepared & Analyzed: 8/9/2024					
Conductivity	<2.00	U	2.00	umhos/cm @ 25 °C						

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08/20/2024 14:45

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1268 - Alkalinity (Continued)										
LCS (BHH1268-BS1)					Prepared & Analyzed: 8/9/2024					
Conductivity	1380			umhos/cm @ 25 °C	1410		97.9	90-110		
LCS (BHH1268-BS2)					Prepared & Analyzed: 8/9/2024					
Conductivity	500			umhos/cm @ 25 °C	500		100	90-110		
LCS (BHH1268-BS4)					Prepared & Analyzed: 8/9/2024					
Alkalinity as CaCO3	105			mg/L	100		105	90-110		
Duplicate (BHH1268-DUP1)		**Source: 24H0025-01**			Prepared & Analyzed: 8/9/2024					
Conductivity	1970		2.00	umhos/cm @ 25 °C		1930			2.00	15
Alkalinity as CaCO3	191		10.0	mg/L		196			2.52	15
Duplicate (BHH1268-DUP2)		**Source: 24H2405-04**			Prepared & Analyzed: 8/9/2024					
Conductivity	459		2.00	umhos/cm @ 25 °C		464			1.08	15
Alkalinity as CaCO3	85.2		10.0	mg/L		84.7			0.530	15
Batch: BHH1271 - TKN T										
Blank (BHH1271-BLK1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	<1.00	U	1.00	mg/L						
LCS (BHH1271-BS1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	3.25		1.00	mg/L	3.14		103	85-115		
Duplicate (BHH1271-DUP1)		**Source: 24H0432-01**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	0.336	U, J1	1.00	mg/L		0.224			40.0	20

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08/20/2024 14:45

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1271 - TKN T (Continued)										
Matrix Spike (BHH1271-MS1)		**Source: 24H0432-01**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	3.81		1.00	mg/L	4.00	0.224	89.6	85-115		
Batch: BHH1272 - TDS										
Blank (BHH1272-BLK1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-filterable (TDS)	<10.0	U	10.0	mg/L						
LCS (BHH1272-BS1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-filterable (TDS)	140		10.0	mg/L	150		93.3	90-110		
Duplicate (BHH1272-DUP1)		**Source: 24H0092-02**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-filterable (TDS)	1900		10.0	mg/L		1910			0.525	10
Batch: BHH1277 - TSS										
Blank (BHH1277-BLK1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	<1.00	U	1.00	mg/L						
LCS (BHH1277-BS1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	99.0		1.00	mg/L	100		99.0	85-115		
Duplicate (BHH1277-DUP1)		**Source: 24H2291-02**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	4.21	J1	1.00	mg/L		3.58			16.2	10
Duplicate (BHH1277-DUP2)		**Source: 24H2322-01**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	4.42		1.00	mg/L		4.42			0.00	10

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P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1280 - CBOD-5210										
LCS (BHH1280-BS1)					Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	225			mg/L	198		114	85-115		
Duplicate (BHH1280-DUP1)			**Source: 24H2291-02**		Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	2.65	J1	2.40	mg/L		4.40			49.7	40
Duplicate (BHH1280-DUP2)			**Source: 24H2349-02**		Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	3.13		2.40	mg/L		<2.40			200	40
Duplicate (BHH1280-DUP3)			**Source: 24H2350-01**		Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	<2.40	U	2.40	mg/L		<2.40				40
Duplicate (BHH1280-DUP4)			**Source: 24H2289-02**		Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	8.80		2.40	mg/L		8.34			5.30	40
Duplicate (BHH1280-DUP5)			**Source: 24H2364-04**		Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	240		50.0	mg/L		227			5.68	20
Batch: BHH1281 - EPA 1664										
Blank (BHH1281-BLK1)					Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	<5.00	U	5.00	mg/L						
LCS (BHH1281-BS1)					Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	37.0		5.00	mg/L	40.0		92.4	77.5-114.5		
LCS Dup (BHH1281-BSD1)					Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	34.4		5.00	mg/L	40.0		86.1	77.5-114.5	7.08	20

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P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1281 - EPA 1664 (Continued)										
Matrix Spike (BHH1281-MS1)		**Source: 24H1149-04**			Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	<5.00	J1, U	5.00	mg/L	40.0	<5.00		77.5-114.5		
Batch: BHH1361 - NH3-N SEAL-350.1										
BHH0688-BLK1 (BHH1361-LBK1)					Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.0170	U	0.0400	mg/L						
Matrix Spike (BHH1361-MS1)		**Source: 24H2349-02**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.252		0.0400	mg/L	0.200	0.0510	100	90-110		
Matrix Spike (BHH1361-MS2)		**Source: 24H2303-01**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.275		0.0400	mg/L	0.200	0.0850	95.0	90-110		
Matrix Spike Dup (BHH1361-MSD1)		**Source: 24H2349-02**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.252		0.0400	mg/L	0.200	0.0510	100	90-110	0.00	20
Matrix Spike Dup (BHH1361-MSD2)		**Source: 24H2303-01**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.294		0.0400	mg/L	0.200	0.0850	104	90-110	6.68	20
Batch: BHH1420 - EPA 300.0										
Duplicate (BHH1420-DUP1)		**Source: 24H0124-01**			Prepared & Analyzed: 8/9/2024					
Chloride	165		20.0	mg/L		168			1.75	15
Nitrate as N	5.18		0.100	mg/L		5.18			0.0965	15
Duplicate (BHH1420-DUP2)		**Source: 24G1066-01RE1**			Prepared & Analyzed: 8/10/2024					
Chloride	2640		100	mg/L		2650			0.329	15
Nitrate as N	<0.100	U	0.100	mg/L		<0.100				15

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Reported:
08/20/2024 14:45

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1420 - EPA 300.0 (Continued)										
MRL Check (BHH1420-MRL1)					Prepared & Analyzed: 8/9/2024					
Chloride	1.12		1.00	mg/L	1.00		112	50-150		
Nitrate as N	0.122		0.100	mg/L	0.100		122	50-150		
Matrix Spike (BHH1420-MS1)		**Source: 24H0124-01**			Prepared & Analyzed: 8/9/2024					
Nitrate as N	7.73		0.111	mg/L	2.22	5.18	114	80-120		
Chloride	192	J1	22.2	mg/L	11.1	168	214	80-120		
Matrix Spike (BHH1420-MS2)		**Source: 24G1066-01RE1**			Prepared & Analyzed: 8/10/2024					
Chloride	2600	J1	111	mg/L	11.1	2650	NR	80-120		
Nitrate as N	2.16		0.111	mg/L	2.22	<0.111	97.4	80-120		
Batch: BHH1568 - Phosphorus EPA 365.1										
LCS (BHH1568-BS1)					Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	0.240		0.0100	mg/L	0.250		96.0	90-110		
Matrix Spike (BHH1568-MS1)		**Source: 24H1646-01**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	17.5		0.500	mg/L	12.5	5.64	94.9	80-120		
Matrix Spike (BHH1568-MS2)		**Source: 24H1993-02**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	5.59	J1, L	0.0500	mg/L	1.25	4.64	76.3	80-120		
Matrix Spike Dup (BHH1568-MSD1)		**Source: 24H1646-01**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	17.7		0.500	mg/L	12.5	5.64	96.8	80-120	1.33	20
Matrix Spike Dup (BHH1568-MSD2)		**Source: 24H1993-02**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	5.78	L	0.0500	mg/L	1.25	4.64	91.0	80-120	3.24	20

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08/20/2024 14:45

Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1717 - EPA 300.0										
Duplicate (BHH1717-DUP1)		**Source: 24H0126-02**			Prepared & Analyzed: 8/13/2024					
Sulfate	68.0		20.0	mg/L		70.4			3.44	15
MRL Check (BHH1717-MRL1)					Prepared & Analyzed: 8/13/2024					
Sulfate	1.19		1.00	mg/L	1.00		119	50-150		
Matrix Spike (BHH1717-MS1)		**Source: 24H0126-02**			Prepared & Analyzed: 8/13/2024					
Sulfate	95.7		22.2	mg/L	22.2	70.4	114	80-120		
Batch: BHH2009 - Phosphorus EPA 365.1										
LCS (BHH2009-BS1)					Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	0.238		0.0100	mg/L	0.250		95.4	90-110		
Matrix Spike (BHH2009-MS1)		**Source: 24H2997-02**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	5.48		0.200	mg/L	5.00	0.488	99.9	80-120		
Matrix Spike (BHH2009-MS2)		**Source: 24H1921-02RE1**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	9.61		0.200	mg/L	5.00	4.45	103	80-120		
Matrix Spike Dup (BHH2009-MSD1)		**Source: 24H2997-02**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	5.23		0.200	mg/L	5.00	0.488	94.9	80-120	4.67	20
Matrix Spike Dup (BHH2009-MSD2)		**Source: 24H1921-02RE1**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	9.40		0.200	mg/L	5.00	4.45	99.0	80-120	2.17	20

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Reported:
08/20/2024 14:45

Quality Control
(Continued)

Microbiology

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1199 - TC EC Quantitray										
Blank (BHH1199-BLK1)					Prepared: 8/8/2024 Analyzed: 8/9/2024					
Escherichia coli (E. coli)	<1.00	U	1.00	MPN/100 mL						
Duplicate (BHH1199-DUP1)			**Source: 24H2300-04**		Prepared: 8/8/2024 Analyzed: 8/9/2024					
Escherichia coli (E. coli)	4.10		1.00	MPN/100 mL		4.10			0.00	200

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Reported:
08/20/2024 14:45

Sample Condition Checklist

Work Order: 24H2249

Check Points	
No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

Work Order: 24H2888

Check Points	
No	Custody Seals
No	Containers Intact
No	COC/Labels Agree
No	Received On Ice
No	Appropriate Containers
No	Appropriate Sample Volume
No	Coolers Intact
No	Samples Accepted

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P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Term and Qualifier Definitions

Item	Definition
FF	The blank for biochemical oxygen demand depleted more than the method limit of 0.20 mg/l.
J1	Estimated value - The reported value is outside the established quality control criteria for accuracy and/or precision.
L	Off scale high - The concentration of the analyte exceeds the linear range.
U	Non-detected compound.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
*	A = Accredited, N = Not Accredited or Accreditation not available
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
MDL	Method Detection Limit - The minimum concentration of a substance (or analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. Based on standard deviation of replicate spiked samples take through all steps of the analytical procedure following 40 CFR Part 136 Appendix B.
SDL	Sample Detection Limit - The minimum concentration of a substance (analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The SDL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MDL = SDL.
MRL	Method Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The MRL is at or above the lowest calibration standard.
LRL	Laboratory Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The LRL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MRL = LRL.

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CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24H2249

Lab PM : Aundra Noe	**Project Name** : Dowdell WWTP #2 - Permit Renwal	**Schedule Comments**
M.M.I.A., Inc. Josh Maas P.O. Box 9 Spring, TX 77383 Phone: (281) 651-1618	**Project Comments**: DO reading must be recorded before 9am If CL2 not between 1.0 - 4.0 Call Office Mark out Duplicated Outfall samples on the regular chain 8002 FM 2920, Spring 77379 - Combo 1911 Operator - Clint Beard - 832-948-9685 Cameron King - (346)	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results	
24H2249-01	Outfall 001		8/8/2024 1130	AQ Grab	A HDPE 250mL B HDPE 250mL C HDPE 1L D HDPE 250mL H2SO4 E HDPE 250mL F Glass Wide 1L w/ Teflon-lined Lid G HDPE S250mL Na2S2O3 H HDPE 250mL I HDPE 250mL H2SO4 J HDPE 250mL H2SO4 K HDPE 1L	TC EC-9223 O&G-1664 Alkalinity-2320 CBOD-5210 Chloride IC 300.0 Conductivity-2510 NH3-N SEAL-350.1 Nitrate as N IC 300.0 Sulfate IC 300.0 TDS-2540 TKN T-4500 C Total Phosphorus-365.1 TSS-2540	Na2S2O3 <10°C HCl 4°C 4°C 4°C 4°C 4°C H2SO4 4°C 4°C 4°C 4°C H2SO4 4°C H2SO4 4°C 4°C	DO Field Flow 90° Weir pH Field Total Chlorine Residual WW Field	6.74 0.054 7.92 2.27

Field Remarks:		**Lab Preservation:** (Circle and Write ID Below) H2SO4 HNO3 NaOH Other:		
Sampler (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name: George Whaley	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: NWDLS	Relinquished To Lab By: (Signature)	Date/Time 1411 8/8/24	Received for Laboratory By: (Signature) KMC	Date/Time 8.8.24 1411

Custody Seal : Yes / No | COC Labels Agree: Yes / No | Appropriate Volume: Yes / No | Received on Ice: Yes / No | Temperature: °C

Container Intact : Yes / No | Appropriate Containers: Yes / No | Coolers Intact: Yes / No | Samples Accepted: Yes / No | Thermometer ID:

Far Northwest

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24H2888

Lab PM : Aundra Noe	**Project Name** : Dowdell WWTP #2 - Permit Renewal Recollect	**Schedule Comments:**
M.M.I.A., Inc. Josh Maas P.O. Box 9 Spring, TX 77383 Phone: (281) 651-1618	**Project Comments:**	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24H2888-01	Outfall 001		8/13/2024 0720	AQ Grab			DO Field 2.23

Field Remarks:		**Lab Preservation:** (Circle and Write ID Below) H2SO4 HNO3 NaOH Other:		
Sampler (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Print Name Leonardo Rivera	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation MMIA	Relinquished To Lab By: (Signature)	Date/Time 8-13-24/1130	Received for Laboratory By: (Signature) JCU	Date/Time 1130 8/13/24

Custody Seal : Yes / No | COC Labels Agree: Yes / No | Appropriate Volume: Yes / No | Received on Ice: Yes / No | Temperature: °C

Container Intact : Yes / No | Appropriate Containers: Yes / No | Coolers Intact: Yes / No | Samples Accepted: Yes / No | Thermometer ID:

Far Northwest

ATTACHMENT 4

SPIF

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: Dowdell Public Utility District

   Permit No. WQ00 11404002 EPA ID No. TX 0136468

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

   Facility is located west of Lozar Drive, approximately 750 feet northwest of the intersection of Avalon Aqua Drive and Lozar Drive, in Harris County, Texas 77379.

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: Jeffery W. Vogler

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

Title: District Engineer

Mailing Address: 777 Eldridge Parkway, Suite 500

City, State, Zip Code: Houston, Texas 77079

Phone No.: 713-782-0042 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jvogler@vs-eng.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.

Click here to enter text.

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

The facility discharges to a detention pond system, thence to a 48-inch storm sewer pipe, thence to Harris County Flood Control District (HCFCD) M114-00-00, thence to Willow Creek, thence to Spring Creek in Segment 1008 of the San Jacinto River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

Click here to enter text.

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

Click here to enter text.

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:

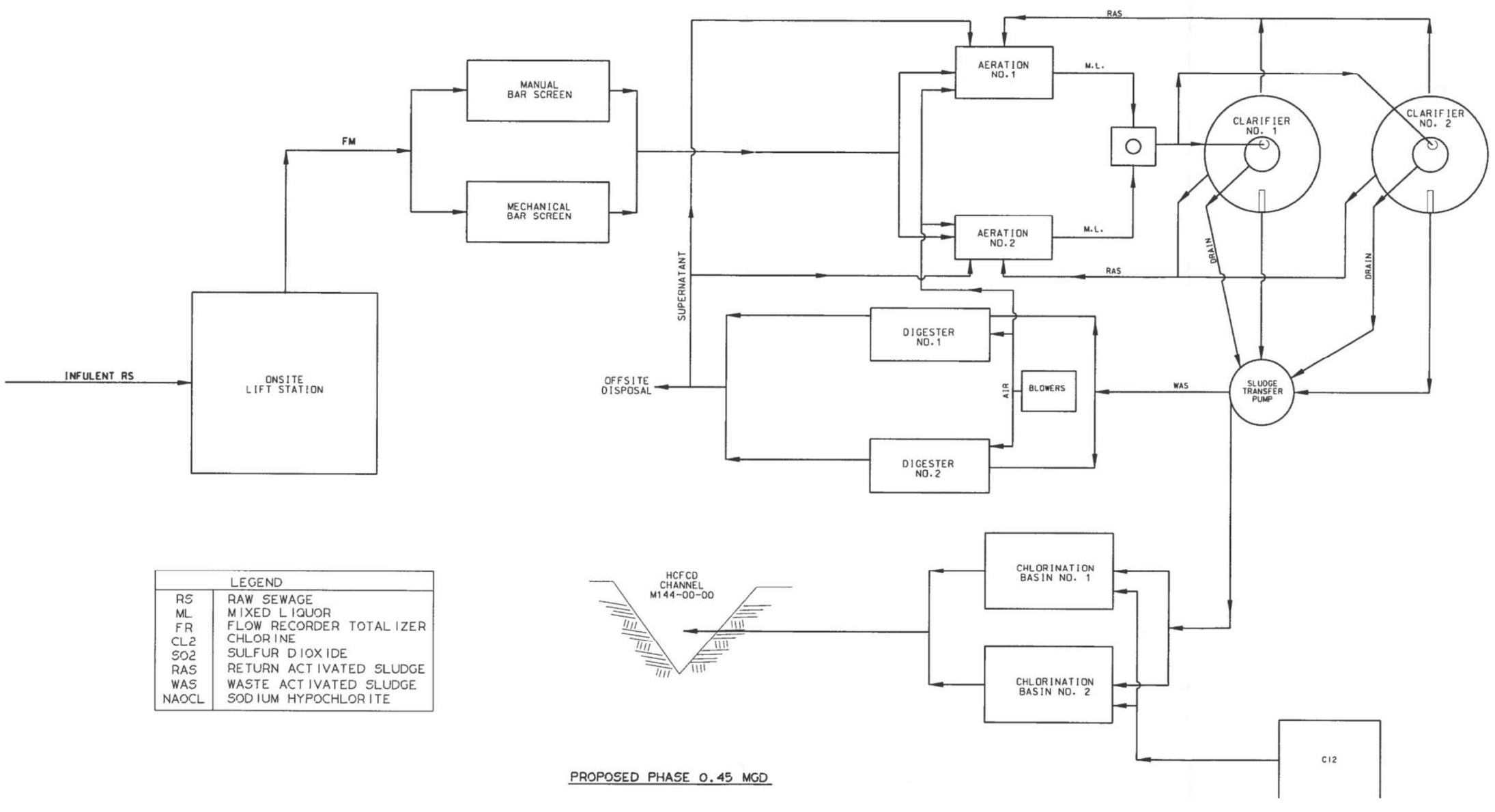
Click here to enter text.

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

Click here to enter text.

ATTACHMENT 5

PROCESS FLOW DIAGRAM

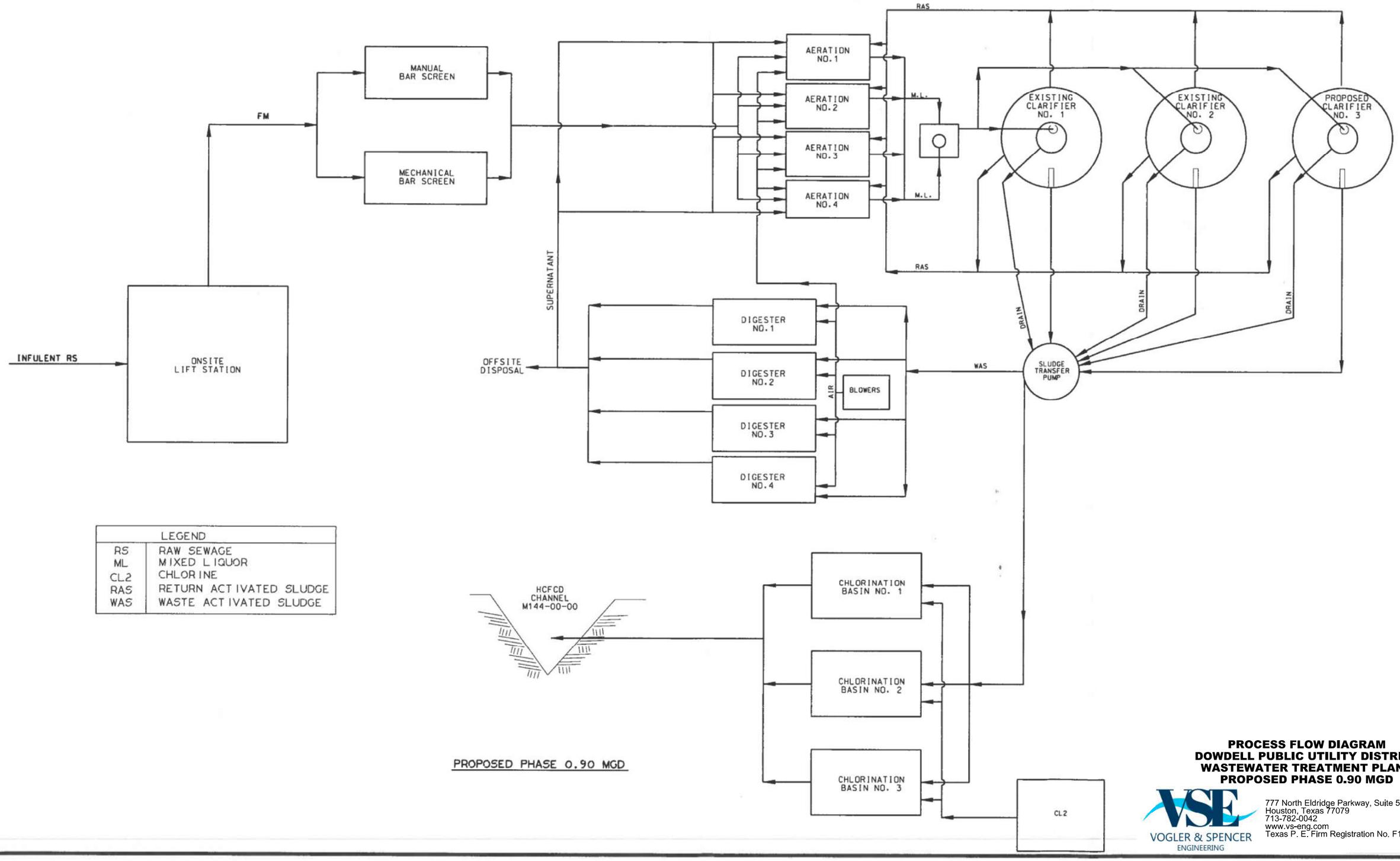


LEGEND	
RS	RAW SEWAGE
ML	MIXED LIQUOR
FR	FLOW RECORDER TOTALIZER
CL2	CHLORINE
SO2	SULFUR DIOXIDE
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE
NAOCL	SODIUM HYPOCHLORITE

PROPOSED PHASE 0.45 MGD

PROCESS FLOW DIAGRAM
DOWDELL PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT PLANT
PROPOSED PHASE 0.45 MGD

VOGLER & SPENCER ENGINEERING
777 North Eldridge Parkway, Suite 500
Houston, Texas 77079
713-782-0042
www.vs-eng.com
Texas P. E. Firm Registration No. F148



LEGEND	
RS	RAW SEWAGE
ML	MIXED LIQUOR
CL2	CHLORINE
RAS	RETURN ACTIVATED SLUDGE
WAS	WASTE ACTIVATED SLUDGE

PROPOSED PHASE 0.90 MGD

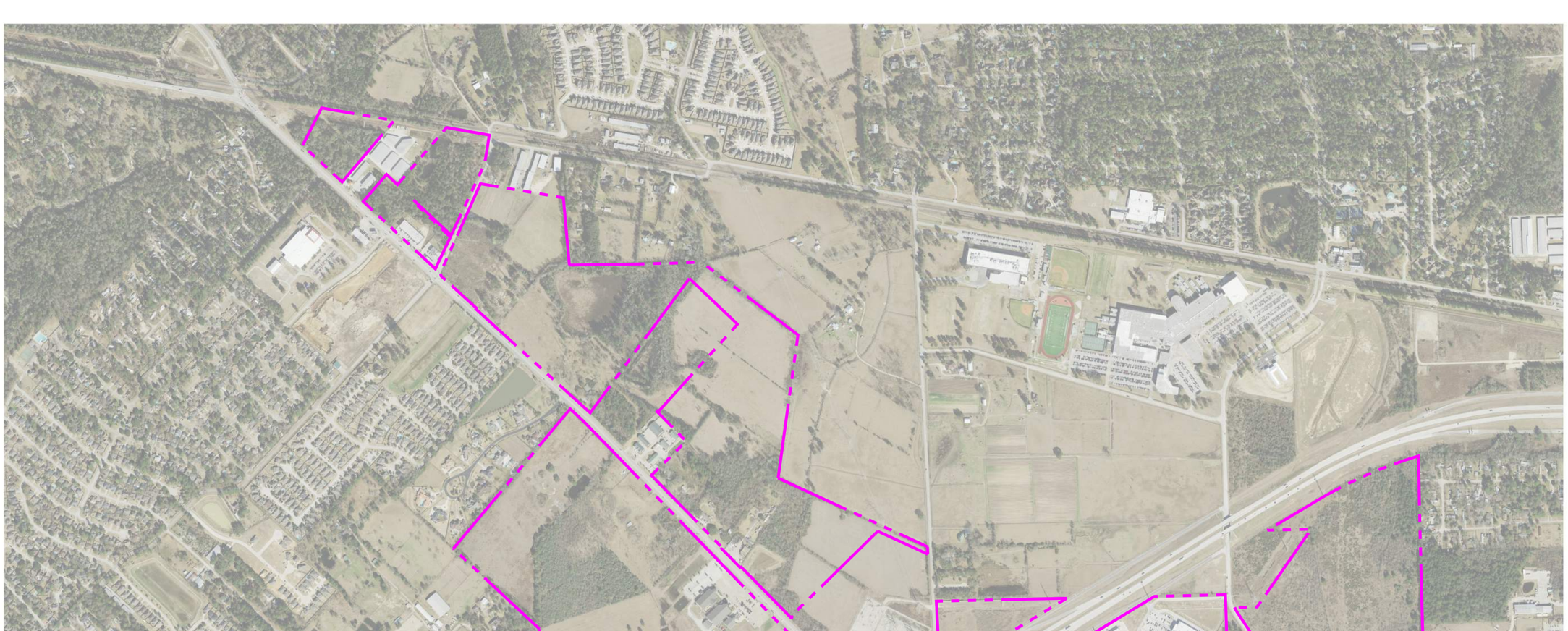
PROCESS FLOW DIAGRAM
DOWDELL PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT PLANT
PROPOSED PHASE 0.90 MGD

VOGLER & SPENCER
ENGINEERING
777 North Eldridge Parkway, Suite 500
Houston, Texas 77079
713-782-0042
www.vs-eng.com
Texas P. E. Firm Registration No. F148

FINAL BY:
PRELIM BY:

ATTACHMENT 6

SERVICE AREA



WWTF SERVICE AREA

LEGEND

WWTF SERVICE AREA

DOWDELL WWTF 2

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DRAWN BY:
JOB No: DATE:

C-____

3:44:07 PM
10/3/2024

F:\30000 Dowdell PUD\500-1\CAD_Dowdell PUD_LocMap.dgn
RichardS-IR

ATTACHMENT 7

BUFFER ZONE MAP

FUTURE WILLOW TRACE
SEC. 2

STATE HIGHWAY 99 (GRAND PARKWAY)
(400' R.O.W.)

LAKES AT AVALON VILLAGE
SEC. 1
FILM CODE No. 600034 H.C.M.R.

W.W.T.P. BOUNDARY

LOZAR DRIVE

INDGO RUTH DRIVE

150' BUFFER ZONE

EXISTING LIFT STATION

EXISTING HEADWORKS

EXISTING BUILDING

GEN.

EXPANDED AERATION & DIGESTORS

PROPOSED CLARIFIER NO. 2

EXISTING CLARIFIER NO. 1

EXISTING CHLORINE CONTACT BASIN NO. 1

PROPOSED CHLORINE CONTACT BASIN NO. 2

25' B.L.

10' B.L.

14' U.E. & A.E.

10' S.S.E.

20' B.L.

10' DRAINAGE RESERVE

5
6
7
8
9
10
11
12
13
14
15
1
2
3
4
5
6

N

50 25 0 50
SCALE: 1"=50'

BUFFER ZONE EXHIBIT
DOWDELL PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT PLANT
PROPOSED PHASE 0.45 MGD

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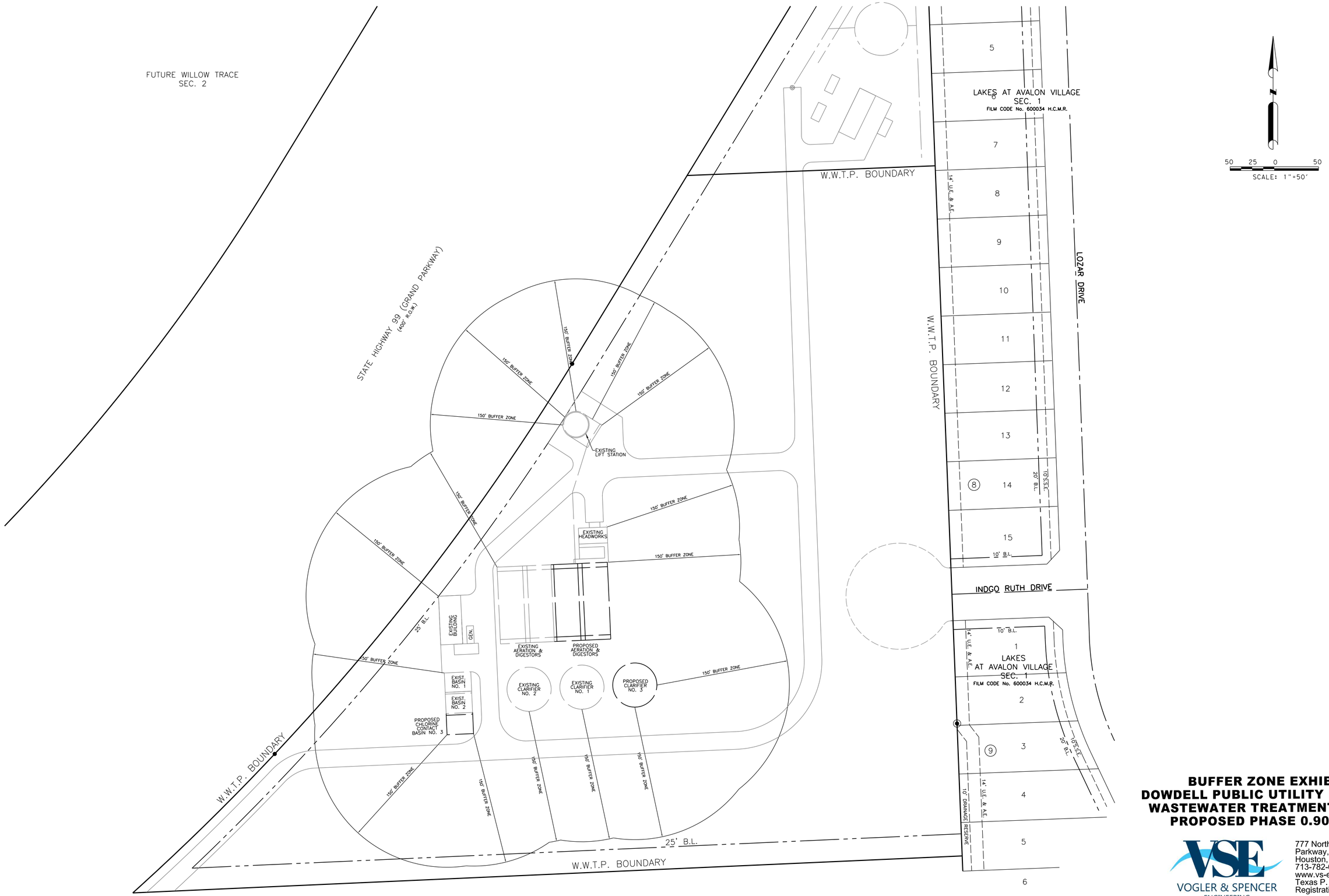
GrantD
3:28:49 PM 10/3/2024
P:\30000 Dowdell PUD\30C-1\CAD\Buffer zone exhibit 0.45 MGD.dgn



BUFFER ZONE EXHIBIT
DOWDELL PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT PLANT
PROPOSED PHASE 0.90 MGD

VOGLER & SPENCER ENGINEERING
777 North Eldridge Parkway, Suite 500
Houston, Texas 77079
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Texas P. E. Firm Registration No. F148

RichardS-IR
10/3/2024
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ATTACHMENT 8

SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN

DOWDELL PUBLIC UTILITY DISTRICT

Wastewater Treatment Facility No. 2

Design Data - 0.45 MGD

DESIGN PARAMETERS:

1. Population Equivalent - Connections				
a. Proposed				1,500
b. Future (Final Phase)				3,000
2. Hydraulic Loading				
a. Estimated Flow (Phase II)		300	gpd/connection	450,000 GPD.
b. Projected Flow (Final Phase)		300	gpd/connection	900,000 GPD.
c. 75% of Design Flow				337,500 GPD.
d. Design Flow				450,000 GPD.
e. Instantaneous Peak Flow		1250	gpm.	1,800,000 GPD.
3. Organic & Ammonia Loading				
a. BOD-5 @		235	mg/l	882 LBS./DAY
b. TSS @		333	mg/l	1,250 LBS./DAY
c. Fixed SS @	25%	83	mg/l	312 LBS./DAY
d. NH3-N @		50	mg/l	188 LBS./DAY
4. Effluent				
a. BOD-5 @		5	mg/l	19 LBS./DAY
b. TSS @		12	mg/l	45 LBS./DAY
c. NH3-N @		1	mg/l	4 LBS./DAY

DESIGN CRITERIA:

1. Aeration			
a. Volume @	35	lbs BOD-5/1000 cf	25,199 CF.
b. Oxygen @	2.2	lb O2/lb BOD-5/day (A)	1,940 LBS./DAY
c. Air @	26	(% OTE-mfg.)	
	0.45	Ratio FTE/OTE	668 SCFM.
d. Calculated (Alternate) Process Design Air Requirement:			660 SCFM.
e. Minimum Mixing Airflow per Unit of Floor Area:			0.12 SCFM/SF
2. Clarifier			
a. Hydraulic Loading Rate - Surface Area			
i. At Average Flow	600	gpd./sf.	750 SF.
ii. At Peak Flow	1200	gpd./sf.	1,500 SF.
iii. Proposed Units:	2	Min. Diameter:	31 FT. - DIA
b. Overflow Rate @ Peak Flow	20,000	gpd./lf. Weir	90 LF.
c. Hydraulic Retention Time (HRT) @ Peak Flow			1.80 HR.
d. Solids Loading Rate (SLR) @ Peak Flow			50 LB.SS/SF.
e. Inlet Velocity @ Peak Flow			0.15 FPS
f. Underflow Rate - Maximum			300 GPD/SF
Qr=UFR x (Qp/OFR)			313 GPM
3. Digester			
a. Design Volume @	25	cf./lb. BOD-5 Applied (40 days SRT)	22,049 CF.
b. Feed Rate	100	lbs. WAS/1,000 cf./day	
	200	lbs. WAS/1,000 cf./day	
c. Maximum Concentraton w/o Thickener			2%
d. Air @	20	scfm/1,000 cf.	441 SCFM.

4. Disinfection

a. Volume	20	min. detention at peak flow		3,342 CF.
b. Air @	15	scfm/1,000 cf.		50 SCFM.

5. Air Required

a. Aeration	668 SCFM.
b. Digester	441 SCFM.
c. Disinfection	50 SCFM.
d. Miscellaneous/Channel	116 SCFM.
d. Minimum Air Required	1,275 SCFM.

DESIGN CONDITIONS:

1. Bar Screen (Step-Fine)	1	Units @			3,900 GPM.
Openning Size					0.25 IN.
Maximum Flow Rate @ a Rate Reduction:			65%		3.65 MGD.
2. Aeration					
a. Volume - Existing:	0	Basins (Units)			0 CF.
b. Volume - Needed:					25,199 CF.
c. Volume - Provided:	2	Basins (Units)			26,250 CF.
d. Unit Loading Rate (per 1000 cubic feet)					34 LBS.
e. F/M Ratio; MLSS-mg/l:			2500		0.22
SRT (Capacity Provided and Yield, SRT=1/FMxY)					5.08 DAYS
f. Calculated Volume Required for Nitrification:					20,215 CF.
Temperature (Deg. C):				20	
SRTn (days w/ SF):				3.91	
SF(min):				3	
Yield (Total MLSS):				0.91	
$SRTn=SF/0.47e^{0.098(T-15)}$			$Y=0.965-0.013(SRTn)$		
g. Overall SRT Safety Factor (SF) for Nitrification					3.90
h. Excess Solids Produced (TSS)	Yg =		0.91		789 LBS/DAY
	MLVSS/MLSS =		70%		552 LBS/DAY
	Fixed Solids =				312 LBS/DAY
	Yn + Yf =				865 LBS/DAY
i. Air Provided:	2.09	scfm/dif,No. 9" Dual:		320	670 SCFM.
Calculated Air Requirement:					660 SCFM.
Ratio of Air Provided to Calculated Process Requirement:					1.02
j. Mixing Capabilities	Proposed Basin Floor Area (sf):			1,750	0.38 SCFM/SF
Minimum Mixing Requirement:					0.12 SCFM/SF
Ratio of Air Provided to Calculated Minimum Requirement:					1.02
3. Clarifier	2	Units			
a. Surface Area:	40	'dia w/o inlet-ft.:		6	2,457 SF.
b. Surface Loading Rates					
i. At Average Flow					366 GPD./SF.
ii. At Peak Flow					733 GPD./SF.
c. Overflow Rate at Peak Flow with V-notched weirs at 4" o.c.					4,897 GPD./LF.
d. HRT @ Peak Flow; swd-ft.:			12.5		3.06 HR.
e. SLR @ Peak Flow; MLSS-mg/l:			2500		15.28 LB.SS/SF.
f. Inlet Velocity @ Peak Flow					0.020 FPS
g. Design Underflow Rate					128 GPD./SF.
					219 GPM.
h. Maximum Underflow Rate					183 GPD./SF.
					313 GPM.
i. Underflow Concentration					8350 mg/l

4. Digester

a. Volume - Existing:	0	Chambers (Units)			0 CF.
b. Volume - Needed:	2	Units @	11,024	cf.-ea. (min.)	22,049 CF.
c. Volume - Provided:	2	Train(s)	2	Units	25,350 CF.
d. Waste Sludge Applied		VSS			552 LB.VS/DAY
e. Unit Loading					
i. Per Pound of Applied BOD-5					28.74 CF./LB.
ii. Feed Rate	100	lbs. VS/1,000 cf./24 hr			25 GPM
	200	lbs. VS/1,000 cf./24 hr			51 GPM
iii. Duration of Wasting @ Feed Rates					5.23 HRS.
					2.61 HRS.
f. Stabilized Sludge Removed		Volatile Reduction:		40%	331 LB.SS/DAY
g. Fixed Solids					312 LB.SS/DAY
g. SRT @ Digester SS Concentration:				1.5%	49.14 DAYS
				2.0%	65.52 DAYS
h. Sludge Hauls/month		5500 gal/truck		2.0%	11 Hauls
h. Air-provided:	15.00	scfm/dif,No. dif.:		40	600 SCFM.
i. Unit Airflow Rate (per 1000 cubic feet)					23.67 SCFM.

5. Disinfection

a. Volume - Existing:					0 CF.
b. Volume - Needed:					3,342 CF.
c. Volume - Provided:					4,560 CF.
					34,109 GAL.
d. Detention Time at Peak Flow					27.3 MIN.
e. Air-provided:	10.00	scfm/dif,No. dif.:		8	80 SCFM.
Unit Airflow Rate (per 1000 cubic feet)					17.54 SCFM.
f. Chlorine Demand					
Avg Daily Flow		3 ppm			11 LBS./DAY
2hr.-Peak Flow		8 ppm			120 LBS./DAY
g. Chlorine Supply	150# Cyl.:	2 @ ppd max		70	140 LBS./DAY
				Rotometer:	250 LBS./DAY
h. Supply Safety Factor					2.08

6. Air Requirements

a. Aeration					670 SCFM.
b. Digester					600 SCFM.
c. Disinfection					80 SCFM.
d. Miscellaneous (channels, mixing chambers & etc.)					75 SCFM.
c. Air Required					1,425 SCFM.
d. Plant Blower Capacity-w/o Largest Unit:					
Unit No.	1		730	SCFM	
Unit No.	2		730	SCFM	
Unit No.	3		730	SCFM	
					1,460 SCFM.-FIRM

ALTERNATE PROCESS AIR CALCULATIONS

1. INFLUENT PARAMETERS			
Design Flow:			450,000 gpd
BOD-5 Conc.			235 mg/l
NH3-N Conc.			50 mg/l
2. EFFLUENT PARAMETERS			
BOD-5 Concentration - Design			3 mg/l
NH3-N Concentration - Design			1 mg/l
3. PROCESS PARAMETERS			
Reactor Design Temperature (C)			24 deg
Field Diffuser Submergence			14.00 ft
Test Diffuser Submergence			15.00 ft
α			0.55
β			0.95
ρ			1.00
Residual D.O.			2.00 mg/l
D.O. - Saturated @ Standard Conditions			9.09 mg/l
D.O. - Saturated @ Design Conditions			8.42 mg/l
D.O. - Steady State (Saturated-Std. Cond.) @ Depth			10.50 mg/l
O-2/BOD-5 Demand Rate			1.25 lbs/lb
O-2/NH3-N Demand Rate			4.60 lbs/lb
Theta @ Design Temp.	$\Theta^{(T-20)}$		1.10
4. PROCESS AIR REQUIREMENTS			
BOD-5 Removed			871 lbs/day
NH3-N Removed			184 lbs/day
O-2 Demand (BOD-5)			1,088 lbs/day
O-2 Demand (NH3-H)			846 lbs/day
Depth Correction Factor			1.07
D > 12 ft.	$(y=0.0375x^{2+}\ 0.545x-0.14)$		
D < 12 ft.	$(y=-0.002x^{2}+0.0176x+1.0827)$		
OTE (Mfg.)			26.00 %
FTE			11.57 %
AOR - O-2 @ Std. OTE			7,440 lbs/day
SOR - O-2 @ FTE			16,720 lbs/day
Aeration - Oxygen Requirement			16,720 lbs/day
Aeration - Calculated			660 scfm
	BOD-5 REMOVAL	371 scfm	
	NH3-N REMOVAL	289 scfm	

DOWDELL PUBLIC UTILITY DISTRICT

Wastewater Treatment Facility No. 2

Design Data - 0.90 MGD

DESIGN PARAMETERS:

1. Population Equivalent - Connections				
a. Proposed (Final Phase)				3,000
b. Future				0
2. Hydraulic Loading				
a. Estimated Flow (Final Phase)		300	gpd/connection	900,000 GPD.
b. Projected Flow (Final Phase)				900,000 GPD.
c. 75% of Design Flow				675,000 GPD.
d. Design Flow				900,000 GPD.
e. Instantaneous Peak Flow		2500	gpm.	3,600,000 GPD.
3. Organic & Ammonia Loading				
a. BOD-5 @		235	mg/l	1,764 LBS./DAY
b. TSS @		333	mg/l	2,499 LBS./DAY
c. Fixed SS @	25%	83	mg/l	625 LBS./DAY
d. NH3-N @		50	mg/l	375 LBS./DAY
4. Effluent				
a. BOD-5 @		5	mg/l	38 LBS./DAY
b. TSS @		12	mg/l	90 LBS./DAY
c. NH3-N @		1	mg/l	8 LBS./DAY

DESIGN CRITERIA:

1. Aeration			
a. Volume @	35	lbs BOD-5/1000 cf	50,397 CF.
b. Oxygen @	2.2	lb O2/lb BOD-5/day (A)	3,881 LBS./DAY
c. Air @	26	(% OTE-mfg.)	
	0.45	Ratio FTE/OTE	1,335 SCFM.
d. Calculated (Alternate) Process Design Air Requirement:			1,319 SCFM.
e. Minimum Mixing Airflow per Unit of Floor Area:			0.12 SCFM/SF
2. Clarifier			
a. Hydraulic Loading Rate - Surface Area			
i. At Average Flow	600	gpd./sf.	1,500 SF.
ii. At Peak Flow	1200	gpd./sf.	3,000 SF.
iii. Proposed Units:	2	Min. Diameter:	44 FT. - DIA
b. Overflow Rate @ Peak Flow	20,000	gpd./lf. Weir	180 LF.
c. Hydraulic Retention Time (HRT) @ Peak Flow			1.80 HR.
d. Solids Loading Rate (SLR) @ Peak Flow			50 LB.SS/SF.
e. Inlet Velocity @ Peak Flow			0.15 FPS
f. Underflow Rate - Maximum			300 GPD/SF
Qr=UFR x (Qp/OFR)			625 GPM
3. Digester			
a. Design Volume @	25	cf./lb. BOD-5 Applied (40 days SRT)	44,098 CF.
b. Feed Rate	100	lbs. WAS/1,000 cf./day	
	200	lbs. WAS/1,000 cf./day	
c. Maximum Concentraton w/o Thickener			2%
d. Air @	20	scfm/1,000 cf.	882 SCFM.

4. Disinfection

a. Volume	20 min. detention at peak flow		6,684 CF.
b. Air @	15 scfm/1,000 cf.		100 SCFM.

5. Air Required

a. Aeration	1,335 SCFM.
b. Digester	882 SCFM.
c. Disinfection	100 SCFM.
d. Miscellaneous/Channel	232 SCFM.
d. Minimum Air Required	2,549 SCFM.

DESIGN CONDITIONS:

1. Bar Screen (Step-Fine)	1 Units @			3,900 GPM.
Openning Size				0.25 IN.
Maximum Flow Rate @ a Rate Reduction:		65%		3.65 MGD.
2. Aeration				
a. Volume - Existing:	2 Basins (Units)			26,250 CF.
b. Volume - Needed:				50,397 CF.
c. Volume - Provided:	4 Basins (Units)			52,500 CF.
d. Unit Loading Rate (per 1000 cubic feet)				34 LBS.
e. F/M Ratio; MLSS-mg/l:		2500		0.22
SRT (Capacity Provided and Yield, SRT=1/FMxY)				5.08 DAYS
f. Calculated Volume Required for Nitrification:				40,431 CF.
Temperature (Deg. C):			20	
SRTn (days w/ SF):			3.91	
SF(min):			3	
Yield (Total MLSS):			0.91	
$SRTn=SF/0.47e^{0.098(T-15)}$		$Y=0.965-0.013(SRTn)$		
g. Overall SRT Safety Factor (SF) for Nitrification				3.90
h. Excess Solids Produced (TSS) Yg =		0.91		1,578 LBS/DAY
MLVSS/MLSS =		70%		1,105 LBS/DAY
Fixed Solids =				625 LBS/DAY
Yn + Yf =				1,730 LBS/DAY
i. Air Provided:	2.11 scfm/dif,No. 9" Dual:		640	1,350 SCFM.
Calculated Air Requirement:				1,319 SCFM.
Ratio of Air Provided to Calculated Process Requirement:				1.02
j. Mixing Capabilities Proposed Basin Floor Area (sf):			3,500	0.39 SCFM/SF
Minimum Mixing Requirement:				0.12 SCFM/SF
Ratio of Air Provided to Calculated Minimum Requirement:				1.02
3. Clarifier	3 Units			
a. Surface Area:	40 'dia w/o inlet-ft.:		6	3,685 SF.
b. Surface Loading Rates				
i. At Average Flow				244 GPD./SF.
ii. At Peak Flow				977 GPD./SF.
c. Overflow Rate at Peak Flow with V-notched weirs at 4" o.c.				9,794 GPD./LF.
d. HRT @ Peak Flow; swd-ft.:		12.5		2.30 HR.
e. SLR @ Peak Flow; MLSS-mg/l:		2500		20.37 LB.SS/SF.
f. Inlet Velocity @ Peak Flow				0.020 FPS
g. Design Underflow Rate				171 GPD./SF.
				438 GPM.
h. Maximum Underflow Rate				244 GPD./SF.
				625 GPM.
i. Underflow Concentration				8350 mg/l

4. Digester

a. Volume - Existing:	2	Chambers (Units)			25,350 CF.
b. Volume - Needed:	4	Units @	11,024	cf.-ea. (min.)	44,098 CF.
c. Volume - Provided:	4	Train(s)	2	Units	50,700 CF.
d. Waste Sludge Applied		VSS			1,105 LB.VS/DAY
e. Unit Loading					
i. Per Pound of Applied BOD-5					28.74 CF./LB.
ii. Feed Rate	100	lbs. VS/1,000 cf./24 hr			51 GPM
	200	lbs. VS/1,000 cf./24 hr			101 GPM
iii. Duration of Wasting @ Feed Rates					5.23 HRS.
					2.61 HRS.
f. Stabilized Sludge Removed		Volatile Reduction:		40%	663 LB.SS/DAY
g. Fixed Solids					625 LB.SS/DAY
g. SRT @ Digester SS Concentration:				1.5%	49.14 DAYS
				2.0%	65.52 DAYS
h. Sludge Hauls/month		5500 gal/truck		2.0%	22 Hauls
h. Air-provided:	15.00	scfm/dif,No. dif.:		80	1,200 SCFM.
i. Unit Airflow Rate (per 1000 cubic feet)					23.67 SCFM.

5. Disinfection

a. Volume - Existing:					4,560 CF.
b. Volume - Needed:					6,684 CF.
c. Volume - Provided:					6,840 CF.
					51,163 GAL.
d. Detention Time at Peak Flow					20.5 MIN.
e. Air-provided:	10.00	scfm/dif,No. dif.:		12	120 SCFM.
		Unit Airflow Rate (per 1000 cubic feet)			17.54 SCFM.
f. Chlorine Demand					
Avg Daily Flow		3 ppm			23 LBS./DAY
2hr.-Peak Flow		8 ppm			240 LBS./DAY
g. Chlorine Supply	150# Cyl.:	4 @ ppd max		70	280 LBS./DAY
				Rotometer:	250 LBS./DAY
h. Supply Safety Factor					1.04

6. Air Requirements

a. Aeration	1,350 SCFM.
b. Digester	1,200 SCFM.
c. Disinfection	120 SCFM.
d. Miscellaneous (channels, mixing chambers & etc.)	150 SCFM.
c. Air Required	2,820 SCFM.

d. Plant Blower Capacity-w/o Largest Unit:

Unit No.	1	730	SCFM
Unit No.	2	730	SCFM
Unit No.	3	730	SCFM
Unit No.	4	730	SCFM
Unit No.	5	730	SCFM
			2,920 SCFM.-FIRM

ALTERNATE PROCESS AIR CALCULATIONS

1. INFLUENT PARAMETERS

Design Flow:		900,000 gpd
BOD-5 Conc.		235 mg/l
NH3-N Conc.		50 mg/l

2. EFFLUENT PARAMETERS

BOD-5 Concentration - Design		3 mg/l
NH3-N Concentration - Design		1 mg/l

3. PROCESS PARAMETERS

Reactor Design Temperature (C)		24 deg
Field Diffuser Submergence		14.00 ft
Test Diffuser Submergence		15.00 ft
α		0.55
β		0.95
ρ		1.00
Residual D.O.		2.00 mg/l
D.O. - Saturated @ Standard Conditions		9.09 mg/l
D.O. - Saturated @ Design Conditions		8.42 mg/l
D.O. - Steady State (Saturated-Std. Cond.) @ Depth		10.50 mg/l
O-2/BOD-5 Demand Rate		1.25 lbs/lb
O-2/NH3-N Demand Rate		4.60 lbs/lb
Theta @ Design Temp. $\Theta^{(T-20)}$		1.10

4. PROCESS AIR REQUIREMENTS

BOD-5 Removed			1,741 lbs/day
NH3-N Removed			368 lbs/day
O-2 Demand (BOD-5)			2,177 lbs/day
O-2 Demand (NH3-H)			1,692 lbs/day
Depth Correction Factor			1.07
D > 12 ft.	*(y=0.0375x^{2+} 0.545x-0.14)*		
D < 12 ft.	*(y=-0.002x^{2} +0.0176x+1.0827)*		
OTE (Mfg.)			26.00 %
FTE			11.57 %
AOR - O-2 @ Std. OTE			14,879 lbs/day
SOR - O-2 @ FTE			33,440 lbs/day
Aeration - Oxygen Requirement			33,440 lbs/day
Aeration - Calculated			1,319 scfm
	BOD-5 REMOVAL	742 scfm	
	NH3-N REMOVAL	577 scfm	

ATTACHMENT 9

CHECK

ENDORSE HERE

X

MP

☐ CHECK HERE IF MOBILE DEPOSIT

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE

RESERVED FOR FINANCIAL INSTITUTION USE

Chemical Wash Detection Box

COLOR INSIDE THIS BOX SHOULD BE WHITE

REPLICATING, FORGING OR ALTERING THIS HIGH SECURITY CHECK IS EXTREMELY DIFFICULT DUE TO THESE FEATURES

SECURITY FEATURES:	DO NOT CASH IF:
Foil Hologram	• Multi-dimensional foil icon is not present
True Watermark Paper	• A distinctive pattern is not visible in the paper when held to light
Heat Sensitive Ink	• Pink padlock and chain icon does not fade and reappear when warmed with finger or breath
Multi-Colored Prismatic Background	• Check pattern on front does not include multiple colors that blend into each other
Security Border and Microprint Lines	• Small type microprint lines appear as broken or solid lines
Chemically Sensitive Paper	• Stains or colored spots appear on front or back
Chemical Wash Detection Box	• Stains or discoloration appear in this area
Fugitive Ink on Back	• Ink on back looks pink or has disappeard
Toner Adhesion	• Printed information appears tampered with
Visible Fibers	• Red and blue fibers are not visible
Invisible Fibers	• White and blue fibers are not visible under ultraviolet light
VOID Indication	• "VOID" appears in this box
Secure Document	• "SECURE DOCUMENT" is not visible on front top right check corner
Security screen	• "ORIGINAL DOCUMENT" does not appear on back

Security features listed and unlisted exceed industry standards.
® Padlock design is a certification mark of Check Payment Systems Association

ATTACHMENT 10

LABORATORY DATA

130 S. Trade Center Parkway, Conroe TX 77385
Tel: (936) 321-6060
Email: lab@nwdls.com
www. NWDLS.com

August 20, 2024

Laboratory Report

Josh Maas
M.M.I.A., Inc.
P.O. Box 9
Spring, TX 77383

Report ID: 20240820144554AEN

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Aundra Noe
Project Manager

130 S. Trade Center Parkway, Conroe TX 77385
Tel: (936) 321-6060
Email: lab@nwdls.com
www. NWDLS.com
TCEQ TX-C24-00185

M.M.I.A., Inc.
P.O. Box 9
Spring, TX 77383

Reported:
08/20/2024 14:45

Sample Results

Client Sample ID: Outfall 001
Lab Sample ID: 24H2249-01
Dowdell WWTP #2 - Permit Renwal [none]

Sample Matrix: Waste Water
Date Collected: 08/08/2024 11:30
Collected by: George Whalen

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry											
SM 2320 B	Alkalinity as CaCO3	A	260		mg/L	1	10.0	10.0	BHH1268	08/09/2024 10:09	FPN
SM 5210 B	Carbonaceous BOD (CBOD)	A	3.61	FF	mg/L	13514	2.03	2.03	BHH1280	08/14/2024 09:59	GOG
SM 2510 B	Conductivity	A	1330		umhos/cm @ 25 °C	1	2.00	2.00	BHH1268	08/09/2024 10:09	FPN
EPA 350.1	Ammonia as N	A	0.0440		mg/L	1	0.0140	0.0400	BHH1361	08/12/2024 13:27	AMM
EPA 1664A	n-Hexane Extractable Material (O&G)	A	<5.00	U	mg/L	1	5.00	5.00	BHH1281	08/09/2024 08:57	IDC
EPA 300.0	Sulfate	A	22.1		mg/L	1	0.0341	1.00	BHH1186	08/09/2024 03:07	AGZ
SM 2540 C	Residue-filterable (TDS)	A	740		mg/L	1	10.0	10.0	BHH1272	08/12/2024 10:53	JRU
SM 4500-NH3 C	Total Kjeldahl Nitrogen - (TKN)	A	<1.00	U	mg/L	1	0.100	1.00	BHH1271	08/12/2024 13:02	ENR
SM 2540 D	Residue-nonfilterable (TSS)	A	1.16		mg/L	1	1.00	1.00	BHH1277	08/12/2024 12:22	BP
Microbiology											
SM 9223 B (Colilert Quanti-Tray)	Escherichia coli (E. coli)	A	<1.00	U	MPN/100 mL	1	1.00	1.00	BHH1199	08/09/2024 15:16	JVG
Field											
Calc	Flow Field	N	7.54E-6		MGD	1	0.00	0.00	BHH1292	08/08/2024 11:30	GBW
SM 4500-H+ B	pH	A	7.92		pH Units @ 25 °C	1	1.00	1.00	BHH1292	08/08/2024 11:30	GBW
SM 4500-Cl G	Total Residual Chlorine	A	2.27		mg/L	1	0.25	0.25	BHH1292	08/08/2024 11:30	GBW

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Sample Results
(Continued)

Client Sample ID: Outfall 001
Lab Sample ID: 24H2249-01RE1
Dowdell WWTP #2 - Permit Renwal [none]

Sample Matrix: Waste Water
Date Collected: 08/08/2024 11:30
Collected by: George Whalen

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry											
EPA 300.0	Chloride (Rerun)	A	190		mg/L	5	0.172	5.00	BHH1420	08/10/2024 06:37	EM
EPA 300.0	Nitrate as N (Rerun)	A	14.4		mg/L	5	0.0710	0.500	BHH1420	08/10/2024 06:37	EM
EPA 365.1	Total Phosphorus (Rerun)	A	9.90		mg/L	1	0.117	0.200	BHH2009	08/15/2024 19:35	GJG

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Sample Results
(Continued)

Client Sample ID: Outfall 001
Lab Sample ID: 24H2249-01RE2
Dowdell WWTP #2 - Permit Renwal [none]

Sample Matrix: Waste Water
Date Collected: 08/08/2024 11:30
Collected by: George Whalen

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
General Chemistry											
EPA 300.0	Sulfate (Rerun)	A	22.0		mg/L	1	0.0341	1.00	BHH1717	08/13/2024 15:50	AGZ

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Sample Results
(Continued)

Client Sample ID: Outfall 001
Lab Sample ID: 24H2888-01
Dowdell WWTP #2 - Permit Renewal Recollect [none]

Sample Matrix: Waste Water
Date Collected: 08/13/2024 7:20
Collected by: Fernando Alvarez

Method	Analyte	*	Result	Q	Units	DF	SDL	LRL	Batch	Analyzed	Analyst
Field											
Hach 10360	DO Field	N	7.25		mg/L	1	1.00	1.00	BHH1970	08/13/2024 07:20	FCA

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Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1186 - EPA 300.0										
Duplicate (BHH1186-DUP1)		**Source: 24H2129-01**			Prepared & Analyzed: 8/8/2024					
Sulfate	3.97		1.00	mg/L		3.97			0.0756	15
Chloride	38.9		1.00	mg/L		38.9			0.0617	15
Nitrate as N	0.127		0.100	mg/L		0.128			0.784	15
Duplicate (BHH1186-DUP2)		**Source: 24H1347-01**			Prepared & Analyzed: 8/8/2024					
Sulfate	15.5		1.00	mg/L		15.6			0.283	15
Nitrate as N	<0.100	U	0.100	mg/L		<0.100				15
Chloride	89.8		10.0	mg/L		90.6			0.909	15
MRL Check (BHH1186-MRL1)					Prepared & Analyzed: 8/8/2024					
Nitrate as N	0.0990	U	0.100	mg/L	0.100		99.0	50-150		
Chloride	1.11		1.00	mg/L	1.00		111	50-150		
Sulfate	1.11		1.00	mg/L	1.00		111	50-150		
Matrix Spike (BHH1186-MS1)		**Source: 24H2129-01**			Prepared & Analyzed: 8/8/2024					
Chloride	53.2	J1	1.11	mg/L	11.1	38.9	129	80-120		
Nitrate as N	2.15		0.111	mg/L	2.22	0.128	90.8	80-120		
Sulfate	24.8		1.11	mg/L	22.2	3.97	93.6	80-120		
Matrix Spike (BHH1186-MS2)		**Source: 24H1347-01**			Prepared & Analyzed: 8/9/2024					
Chloride	111	J1	11.1	mg/L	11.1	90.6	183	80-120		
Sulfate	37.6		1.11	mg/L	22.2	15.6	99.0	80-120		
Nitrate as N	2.08		0.111	mg/L	2.22	<0.111	93.7	80-120		
Batch: BHH1268 - Alkalinity										
Blank (BHH1268-BLK1)					Prepared & Analyzed: 8/9/2024					
Conductivity	<2.00	U	2.00	umhos/cm @ 25 °C						

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1268 - Alkalinity (Continued)										
LCS (BHH1268-BS1)					Prepared & Analyzed: 8/9/2024					
Conductivity	1380			umhos/cm @ 25 °C	1410		97.9	90-110		
LCS (BHH1268-BS2)					Prepared & Analyzed: 8/9/2024					
Conductivity	500			umhos/cm @ 25 °C	500		100	90-110		
LCS (BHH1268-BS4)					Prepared & Analyzed: 8/9/2024					
Alkalinity as CaCO3	105			mg/L	100		105	90-110		
Duplicate (BHH1268-DUP1)		**Source: 24H0025-01**			Prepared & Analyzed: 8/9/2024					
Conductivity	1970		2.00	umhos/cm @ 25 °C		1930			2.00	15
Alkalinity as CaCO3	191		10.0	mg/L		196			2.52	15
Duplicate (BHH1268-DUP2)		**Source: 24H2405-04**			Prepared & Analyzed: 8/9/2024					
Conductivity	459		2.00	umhos/cm @ 25 °C		464			1.08	15
Alkalinity as CaCO3	85.2		10.0	mg/L		84.7			0.530	15
Batch: BHH1271 - TKN T										
Blank (BHH1271-BLK1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	<1.00	U	1.00	mg/L						
LCS (BHH1271-BS1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	3.25		1.00	mg/L	3.14		103	85-115		
Duplicate (BHH1271-DUP1)		**Source: 24H0432-01**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	0.336	U, J1	1.00	mg/L		0.224			40.0	20

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1271 - TKN T (Continued)										
Matrix Spike (BHH1271-MS1)		**Source: 24H0432-01**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Total Kjeldahl Nitrogen - (TKN)	3.81		1.00	mg/L	4.00	0.224	89.6	85-115		
Batch: BHH1272 - TDS										
Blank (BHH1272-BLK1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-filterable (TDS)	<10.0	U	10.0	mg/L						
LCS (BHH1272-BS1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-filterable (TDS)	140		10.0	mg/L	150		93.3	90-110		
Duplicate (BHH1272-DUP1)		**Source: 24H0092-02**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-filterable (TDS)	1900		10.0	mg/L		1910			0.525	10
Batch: BHH1277 - TSS										
Blank (BHH1277-BLK1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	<1.00	U	1.00	mg/L						
LCS (BHH1277-BS1)					Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	99.0		1.00	mg/L	100		99.0	85-115		
Duplicate (BHH1277-DUP1)		**Source: 24H2291-02**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	4.21	J1	1.00	mg/L		3.58			16.2	10
Duplicate (BHH1277-DUP2)		**Source: 24H2322-01**			Prepared: 8/9/2024 Analyzed: 8/12/2024					
Residue-nonfilterable (TSS)	4.42		1.00	mg/L		4.42			0.00	10

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1280 - CBOD-5210										
LCS (BHH1280-BS1)					Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	225			mg/L	198		114	85-115		
Duplicate (BHH1280-DUP1)		**Source: 24H2291-02**			Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	2.65	J1	2.40	mg/L		4.40			49.7	40
Duplicate (BHH1280-DUP2)		**Source: 24H2349-02**			Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	3.13		2.40	mg/L		<2.40			200	40
Duplicate (BHH1280-DUP3)		**Source: 24H2350-01**			Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	<2.40	U	2.40	mg/L		<2.40				40
Duplicate (BHH1280-DUP4)		**Source: 24H2289-02**			Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	8.80		2.40	mg/L		8.34			5.30	40
Duplicate (BHH1280-DUP5)		**Source: 24H2364-04**			Prepared: 8/9/2024 Analyzed: 8/14/2024					
Carbonaceous BOD (CBOD)	240		50.0	mg/L		227			5.68	20
Batch: BHH1281 - EPA 1664										
Blank (BHH1281-BLK1)					Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	<5.00	U	5.00	mg/L						
LCS (BHH1281-BS1)					Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	37.0		5.00	mg/L	40.0		92.4	77.5-114.5		
LCS Dup (BHH1281-BSD1)					Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	34.4		5.00	mg/L	40.0		86.1	77.5-114.5	7.08	20

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1281 - EPA 1664 (Continued)										
Matrix Spike (BHH1281-MS1)		**Source: 24H1149-04**			Prepared & Analyzed: 8/9/2024					
n-Hexane Extractable Material (O&G)	<5.00	J1, U	5.00	mg/L	40.0	<5.00		77.5-114.5		
Batch: BHH1361 - NH3-N SEAL-350.1										
BHH0688-BLK1 (BHH1361-LBK1)					Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.0170	U	0.0400	mg/L						
Matrix Spike (BHH1361-MS1)		**Source: 24H2349-02**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.252		0.0400	mg/L	0.200	0.0510	100	90-110		
Matrix Spike (BHH1361-MS2)		**Source: 24H2303-01**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.275		0.0400	mg/L	0.200	0.0850	95.0	90-110		
Matrix Spike Dup (BHH1361-MSD1)		**Source: 24H2349-02**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.252		0.0400	mg/L	0.200	0.0510	100	90-110	0.00	20
Matrix Spike Dup (BHH1361-MSD2)		**Source: 24H2303-01**			Prepared & Analyzed: 8/12/2024					
Ammonia as N	0.294		0.0400	mg/L	0.200	0.0850	104	90-110	6.68	20
Batch: BHH1420 - EPA 300.0										
Duplicate (BHH1420-DUP1)		**Source: 24H0124-01**			Prepared & Analyzed: 8/9/2024					
Chloride	165		20.0	mg/L		168			1.75	15
Nitrate as N	5.18		0.100	mg/L		5.18			0.0965	15
Duplicate (BHH1420-DUP2)		**Source: 24G1066-01RE1**			Prepared & Analyzed: 8/10/2024					
Chloride	2640		100	mg/L		2650			0.329	15
Nitrate as N	<0.100	U	0.100	mg/L		<0.100				15

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Quality Control
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General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1420 - EPA 300.0 (Continued)										
MRL Check (BHH1420-MRL1)					Prepared & Analyzed: 8/9/2024					
Chloride	1.12		1.00	mg/L	1.00		112	50-150		
Nitrate as N	0.122		0.100	mg/L	0.100		122	50-150		
Matrix Spike (BHH1420-MS1)		**Source: 24H0124-01**			Prepared & Analyzed: 8/9/2024					
Nitrate as N	7.73		0.111	mg/L	2.22	5.18	114	80-120		
Chloride	192	J1	22.2	mg/L	11.1	168	214	80-120		
Matrix Spike (BHH1420-MS2)		**Source: 24G1066-01RE1**			Prepared & Analyzed: 8/10/2024					
Chloride	2600	J1	111	mg/L	11.1	2650	NR	80-120		
Nitrate as N	2.16		0.111	mg/L	2.22	<0.111	97.4	80-120		
Batch: BHH1568 - Phosphorus EPA 365.1										
LCS (BHH1568-BS1)					Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	0.240		0.0100	mg/L	0.250		96.0	90-110		
Matrix Spike (BHH1568-MS1)		**Source: 24H1646-01**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	17.5		0.500	mg/L	12.5	5.64	94.9	80-120		
Matrix Spike (BHH1568-MS2)		**Source: 24H1993-02**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	5.59	J1, L	0.0500	mg/L	1.25	4.64	76.3	80-120		
Matrix Spike Dup (BHH1568-MSD1)		**Source: 24H1646-01**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	17.7		0.500	mg/L	12.5	5.64	96.8	80-120	1.33	20
Matrix Spike Dup (BHH1568-MSD2)		**Source: 24H1993-02**			Prepared: 8/12/2024 Analyzed: 8/13/2024					
Total Phosphorus	5.78	L	0.0500	mg/L	1.25	4.64	91.0	80-120	3.24	20

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Quality Control
(Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1717 - EPA 300.0										
Duplicate (BHH1717-DUP1)		**Source: 24H0126-02**			Prepared & Analyzed: 8/13/2024					
Sulfate	68.0		20.0	mg/L		70.4			3.44	15
MRL Check (BHH1717-MRL1)					Prepared & Analyzed: 8/13/2024					
Sulfate	1.19		1.00	mg/L	1.00		119	50-150		
Matrix Spike (BHH1717-MS1)		**Source: 24H0126-02**			Prepared & Analyzed: 8/13/2024					
Sulfate	95.7		22.2	mg/L	22.2	70.4	114	80-120		
Batch: BHH2009 - Phosphorus EPA 365.1										
LCS (BHH2009-BS1)					Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	0.238		0.0100	mg/L	0.250		95.4	90-110		
Matrix Spike (BHH2009-MS1)		**Source: 24H2997-02**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	5.48		0.200	mg/L	5.00	0.488	99.9	80-120		
Matrix Spike (BHH2009-MS2)		**Source: 24H1921-02RE1**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	9.61		0.200	mg/L	5.00	4.45	103	80-120		
Matrix Spike Dup (BHH2009-MSD1)		**Source: 24H2997-02**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	5.23		0.200	mg/L	5.00	0.488	94.9	80-120	4.67	20
Matrix Spike Dup (BHH2009-MSD2)		**Source: 24H1921-02RE1**			Prepared: 8/14/2024 Analyzed: 8/15/2024					
Total Phosphorus	9.40		0.200	mg/L	5.00	4.45	99.0	80-120	2.17	20

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Quality Control
(Continued)

Microbiology

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHH1199 - TC EC Quantitray										
Blank (BHH1199-BLK1)					Prepared: 8/8/2024 Analyzed: 8/9/2024					
Escherichia coli (E. coli)	<1.00	U	1.00	MPN/100 mL						
Duplicate (BHH1199-DUP1)			**Source: 24H2300-04**		Prepared: 8/8/2024 Analyzed: 8/9/2024					
Escherichia coli (E. coli)	4.10		1.00	MPN/100 mL		4.10			0.00	200

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Sample Condition Checklist

Work Order: 24H2249

Check Points	
No	Custody Seals
Yes	Containers Intact
Yes	COC/Labels Agree
Yes	Received On Ice
Yes	Appropriate Containers
Yes	Appropriate Sample Volume
Yes	Coolers Intact
Yes	Samples Accepted

Work Order: 24H2888

Check Points	
No	Custody Seals
No	Containers Intact
No	COC/Labels Agree
No	Received On Ice
No	Appropriate Containers
No	Appropriate Sample Volume
No	Coolers Intact
No	Samples Accepted

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Term and Qualifier Definitions

Item	Definition
FF	The blank for biochemical oxygen demand depleted more than the method limit of 0.20 mg/l.
J1	Estimated value - The reported value is outside the established quality control criteria for accuracy and/or precision.
L	Off scale high - The concentration of the analyte exceeds the linear range.
U	Non-detected compound.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
*	A = Accredited, N = Not Accredited or Accreditation not available
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
MDL	Method Detection Limit - The minimum concentration of a substance (or analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. Based on standard deviation of replicate spiked samples take through all steps of the analytical procedure following 40 CFR Part 136 Appendix B.
SDL	Sample Detection Limit - The minimum concentration of a substance (analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The SDL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MDL = SDL.
MRL	Method Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The MRL is at or above the lowest calibration standard.
LRL	Laboratory Reporting Limit - Analyte concentration that corresponds to the lowest level lab reports with confidence in accuracy of quantitation and without qualification (i.e. J-flagged). The LRL is an adjusted limit thus sample specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments. If there are no sample specific parameters, the MRL = LRL.

* A = Accredited, N = Not Accredited or Accreditation not available

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24H2249

Lab PM : Aundra Noe	**Project Name** : Dowdell WWTP #2 - Permit Renwal	**Schedule Comments:**
M.M.I.A., Inc. Josh Maas P.O. Box 9 Spring, TX 77383 Phone: (281) 651-1618	**Project Comments**: DO reading must be recorded before 9am If CL2 not between 1.0 - 4.0 Call Office Mark out Duplicated Outfall samples on the regular chain 8002 FM 2920, Spring 77379 - Combo 1911 Operator - Clint Beard - 832-948-9685 Cameron King - (346)	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results	
24H2249-01	Outfall 001		8/8/2024 1130	AQ Grab	A HDPE 250mL B HDPE 250mL C HDPE 1L D HDPE 250mL H2SO4 E HDPE 250mL F Glass Wide 1L w/ Teflon-lined Lid G HDPE S250mL Na2S2O3 H HDPE 250mL I HDPE 250mL H2SO4 J HDPE 250mL H2SO4 K HDPE 1L	TC EC-9223 O&G-1664 Alkalinity-2320 CBOD-5210 Chloride IC 300.0 Conductivity-2510 NH3-N SEAL-350.1 Nitrate as N IC 300.0 Sulfate IC 300.0 TDS-2540 TKN T-4500 C Total Phosphorus-365.1 TSS-2540	Na2S2O3 <10°C HCl 4°C 4°C 4°C 4°C 4°C H2SO4 4°C 4°C 4°C 4°C H2SO4 4°C H2SO4 4°C 4°C	DO Field Flow 90° Weir pH Field Total Chlorine Residual WW Field	6.74 0.054 7.92 2.27

Field Remarks:		**Lab Preservation: (Circle and Write ID Below)** H2SO4 HNO3 NaOH Other:			
Sampler (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Print Name George Whaley	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Affiliation NWD 29	Relinquished To Lab By: (Signature)	Date/Time 1411 8/8/24	Received for Laboratory By: (Signature) KMC		Date/Time 8.8.24 1411

Custody Seal : Yes / No | COC Labels Agree: Yes / No | Appropriate Volume: Yes / No | Received on Ice: Yes / No | Temperature: °C

Container Intact : Yes / No | Appropriate Containers: Yes / No | Coolers Intact: Yes / No | Samples Accepted: Yes / No | Thermometer ID:

Far Northwest

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ TX-C24-00185

24H2888

Lab PM : Aundra Noe	**Project Name** : Dowdell WWTP #2 - Permit Renewal Recollect	**Schedule Comments:**
M.M.I.A., Inc. Josh Maas P.O. Box 9 Spring, TX 77383 Phone: (281) 651-1618	**Project Comments:**	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24H2888-01	Outfall 001		8/13/2024 1020	AQ Grab			DO Field 7.23

Field Remarks:			**Lab Preservation:** (Circle and Write ID Below) H2SO4 HNO3 NaOH Other:		
Sampler (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Print Name Fernando Olvera	Relinquished By: (Signature)	Date/Time	Received By: (Signature)		Date/Time
Affiliation MWDLS	Relinquished To Lab By: (Signature)	Date/Time 8-13-24/1130	Received for Laboratory By: (Signature) JCL		Date/Time 1130 8/13/24

Custody Seal : Yes / No | COC Labels Agree: Yes / No | Appropriate Volume: Yes / No | Received on Ice: Yes / No | Temperature: °C

Container Intact : Yes / No | Appropriate Containers: Yes / No | Coolers Intact: Yes / No | Samples Accepted: Yes / No | Thermometer ID:

Far Northwest

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 7, 2024

Mr. Jeffery Vogler, P.E.
Disttrict Engineer
Vogler & Spncer Engineering
777 Eldridge Parkway, Suite 500
Houston, Texas 77079

RE: Application to Renew, for Permit No.: WQ0011404002 (EPA I.D. No. TX0136468)
Applicant Name: Dowdell Public Utility District (CN601229909)
Site Name: Dowdell PUD WWTP 2 (RN108374455)
Type of Application: Renewal without changes

VIA EMAIL

Dear Mr. Vogler:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

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

Lozar

APPLICATION. Dowdell Public Utility District, 2727 Allen Parkway, Suite 1100, Houston, Texas 77019, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011404002 (EPA I.D. No. TX0136468) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 900,000 gallons per day. The domestic wastewater treatment facility is located west of Lazar Drive, approximately 750 feet northwest of the intersection of Lozar Drive and Avalon Aqua Way, in the city of Spring, in Harris County, Texas 77379. The discharge route is from the plant site to a detention pond system; thence to a 48-inch storm sewer pipe; thene to Control District Ditch M114-00-0; thence to Willow Creek; thence to Spring Creek. TCEQ received this application on October 31, 2024. The permit application will be available for viewing and copying at Barbara Bush Branch Library, 6817 Cypesswood Drive, Spring, 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=-95.537777,30.079722&level=18

Further information may also be obtained from Dowdell Public Utility District at the address stated above or by calling Mr. Jeffery Vogler, P.E., District Engineer, at 713-782-0042.

2. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please submit the complete response, addressed to my attention by November 21, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-2441 or by email at Francesca.Findlay@tceq.texas.gov

Jeffrey

Sincerely,

Francesca Findlay
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

F.F.

Enclosure(s)

cc: Mr. G. Taylor Goodall, Attorney, Smith Murdaugh Little & Bonham, LLP, 2727 Allen Parkway, Suite 1100, Houston, Texas 77019

Francesca Findlay

From: Mehdi Kettani <MKettani@vs-eng.com>
Sent: Monday, November 18, 2024 5:52 PM
To: Francesca Findlay
Cc: Jeff Vogler; Andres Dillon; Marcos Esparza
Subject: RE: WQ0011404002 Dowdell Public Utility District
Attachments: wq0011404002-nod1.pdf; Spanish Translation-NORI-Dowdell PUD WWTP 2.docx

Francesca,

Attached is the translated NORI and the English NORI comments.

Thank you,

Mehdi Kettani, P.E.
Project Engineer

Vogler & Spencer Engineering, Inc.
TBPE Firm No. F-148
E: Mkettani@vs-eng.com
P: 713.782.0042 | C: 713.382.9748
777 N. Eldridge Pkwy, Ste 500, Houston, TX 77079
W: www.vs-eng.com

VOGLER & SPENCER ENGINEERING

Top Workplace 2 years in a row - Houston Chronicle

From: Jeff Vogler <jvogler@vs-eng.com>
Sent: Thursday, November 7, 2024 9:12 AM
To: Mehdi Kettani <MKettani@vs-eng.com>; Andres Dillon <ADillon@vs-eng.com>
Subject: FW: WQ0011404002 Dowdell Public Utility District

Jeffrey W. Vogler, P.E.
Jeffrey W. Vogler, P.E.
President
Vogler & Spencer Engineering, Inc.
777 North Eldridge Parkway, Suite 500
Houston, Texas 77079
713-782-0042 (phone)
713-254-1836 (cell)
713-782-5337 (fax)
jvogler@vs-eng.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Thursday, November 7, 2024 9:00 AM
To: Jeff Vogler <jvogler@vs-eng.com>
Cc: tgoodall@smithmur.com
Subject: FW: WQ0011404002 Dowdell Public Utility District

Dear Mr. Vogler

The attached Notice of Deficiency letter sent on November 7, 2024, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention November 21, 2024.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

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Jeffrey W. Vogler, P.E.
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President
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