

This file contains the following documents:

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



Este archivo contiene los siguientes documentos:

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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.

City of Spearman (CN 600251235) operates The City of Spearman Wastewater Treatment Facility (RN 103137923), a Texas Land Application Permits. The facility is located at approximately 1 mile northwest of the intersection of FM 760 and State Highway 15 and 1.6 miles northeast of the intersection of State Highway 15 and FM 2387, in Spearman, Hansford County, Texas 79081. Renewal for disposal of treated domestic wastewater effluent at a daily average flow not exceeding 0.40 million gallons per day (MGD) via surface irrigation of 241.8 acres of non-public access land. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (CBOD₅), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Treated domestic wastewater is treated by first entering a facultative lagoon, followed by treatment in two stabilization ponds. After treatment, the effluent is stored in two storage ponds. The final step is surface irrigation of non-public access land using the treated and stored effluent.

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.

Ciudad de Spearman (CN600251235) opera la planta de tratamiento de aguas residuales de la ciudad de Spearman RN103137923, un Sistema de laguna facultativa. La instalación está ubicada en 2650 pies al oeste de la nterseccion de County Road U y Farm to Market 790, en Spearman, Condado de Hansford, Texas 79081. Solicitud de renovacion. << *Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:*>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquemica de oxigeno (BOD5) de cinco dias. Aguas residuales domesticas. están tratado por un Sistema de laguna facultiva y estanque de almacenamiento.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010977001

APPLICATION. City of Spearman, P.O. Box 37, Spearman, Texas 79081, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010977001 to authorize the disposal of wastewater at a volume not to exceed a daily average flow of 400,000 gallons per day via surface irrigation of 241.8 acres of non-public access land. The domestic wastewater treatment facility and disposal area are located approximately one mile northwest of the intersection of Farm-to-Market Road 760 and State Highway 15, near the city of Spearman, in Hansford County, Texas 79081. TCEQ received this application on October 1, 2025. The permit application will be available for viewing and copying at Spearman City Hall, City Secretary's Office, 30 Southwest Court, Spearman, in Hansford County, Texas, prior to the date this notice is published in the newspaper. The application is available for viewing and copying at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-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=-101.204722,36.206666&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Spearman at the address stated above or by calling Mr. Justin Parker, City Manager, at 806-659-2524.

Issuance Date: November 21, 2025

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0010977001

SOLICITUD. Ciudad de Spearman, P.O. Box 37, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) Permiso de Solicitud de Tierras de Texas (TLAP) nº WQ0010977001 autorizar la eliminación de aguas residuales con un volumen que no exceda un caudal medio diario de 400.000 galones por día mediante riego superficial de 241,8 acres de terreno de acceso no público. La instalación de tratamiento de aguas residuales domésticas y el área de eliminación están ubicadas aproximadamente una milla al noroeste de la intersección de Farm-to-Market Road 760 y State Highway 15, cerca de la ciudad de Spearman, en el condado de Hansford, Texas 79081. La TCEQ recibió esta solicitud el de 1 Octubre 2025. La solicitud de permiso estará disponible para su visualización y copia en el Ayuntamiento, de Spearman Ayuntamiento, Oficina del Secretario Municipal, 30 Southwest Court, Spearman, en el condado de Hansford, Texas, antes de la fecha en que se publique este aviso en el periódico. La aplicación está disponible para su visualización y copia 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=-101.204722,36.206666&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia

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

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

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

También se puede obtener información adicional del Ciudad de Spearman a la dirección indicada arriba o llamando a Justin Parker al (806) 659-2524.

Fecha de emisión: 21 de noviembre de 2025

MUNICIPAL WASTEWATER TREATMENT PLANT (WWTP) PERMIT RENEWAL

CITY OF SPEARMAN, TEXAS

City of Spearman Municipal Wastewater Treatment Plant Hansford County WWTP Permit No. WQ0010977001 September 2025







TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NA	ME: City	of S	pearman

PERMIT NUMBER (If new, leave blank): WQ00<u>10977001</u>

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

	1	1.4		I	11
Administrative Report 1.0	\boxtimes		Original USGS Map	\boxtimes	
Administrative Report 1.1		\boxtimes	Affected Landowners Map		\boxtimes
SPIF			Landowner Disk or Labels		\boxtimes
Core Data Form			Buffer Zone Map		\boxtimes
Summary of Application (PLS)		\boxtimes	Flow Diagram	\boxtimes	
Public Involvement Plan Form		\boxtimes	Site Drawing	\boxtimes	
Technical Report 1.0			Original Photographs		\boxtimes
Technical Report 1.1		\boxtimes	Design Calculations		\boxtimes
Worksheet 2.0			Solids Management Plan		\boxtimes
Worksheet 2.1		\boxtimes	Water Balance		\boxtimes
Worksheet 3.0					
Worksheet 3.1		\boxtimes			
Worksheet 3.2		\boxtimes			
Worksheet 3.3		\boxtimes			
Worksheet 4.0		\boxtimes			
Worksheet 5.0		\boxtimes			
Worksheet 6.0	\boxtimes				
Worksheet 7.0		\boxtimes			
For TCEQ Use Only					
Expiration Date			County Region		

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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: 1,615.00

Check/Money Order Amount: <u>\$1,615.00</u> Name Printed on Check: <u>City of Spearman</u>

EPAY Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes \boxtimes

Section 2. Type of Application (Instructions Page 26)

a.	Che	ck the box next to the appropriate authorization type.
	\boxtimes	Publicly Owned Domestic Wastewater

- ☐ Privately-Owned Domestic Wastewater
- ☐ Conventional Water Treatment
- **b.** Check the box next to the appropriate facility status.
 - $oxed{oxed}$ Active $oxed{\Box}$ Inactive

c.	Che	ck the box next to the appropriate permit typ	e.	
		TPDES Permit		
	\boxtimes	TLAP		
		TPDES Permit with TLAP component		
		Subsurface Area Drip Dispersal System (SAD	DS)	
d.	Che	eck the box next to the appropriate application	ı typ	e
		New		
		Major Amendment <u>with</u> Renewal		Minor Amendment <u>with</u> Renewal
		Major Amendment <u>without</u> Renewal		Minor Amendment <u>without</u> Renewal
	\boxtimes	Renewal without changes		Minor Modification of permit
e.	For	amendments or modifications, describe the p	ropo	osed changes: Click to enter text.
f.	For	existing permits:		
	Peri	mit Number: WQ00 <u>10977001</u>		
	EPA	A. I.D. (TPDES only): TX <u>0032328</u>		
	Exp	iration Date: April 1 2026		

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?

City of Spearman

(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: 600251235

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: Parker, Justin

Title: <u>City Manager</u> Credential: <u>N/A</u>

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: <u>N/A</u>

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: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Provide a brief description of the need for a co-permittee: N/A

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: Parker, Justin

Title: <u>City Manager</u> Credential: <u>N/A</u>

Organization Name: City of Spearman

Mailing Address: P.O. Box 37 City, State, Zip Code: Spearman Texas, 79081

Phone No.: <u>(806) 659-2524</u> E-mail Address: <u>citymanager@spearmantx.gov</u>

Check one or both:

B. Prefix: Mr. Last Name, First Name: Garcia, Adolfo

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

Organization Name: <u>Hi-Plains Civil Engineers</u>

Mailing Address: 4537 Canyon Dr. City, State, Zip Code: Amarillo, Texas, 79110

Phone No.: (806) 353-7233 E-mail Address: adolfog@hpcetx.com

Check one or both: \square Administrative Contact \boxtimes 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: Parker, Justin

Title: <u>City Manager</u> Credential: <u>N/A</u>

Organization Name: City of Spearman

Mailing Address: P.O. Box 37 City, State, Zip Code: Spearman Texas, 79081

Phone No.: (806) 659-2524 E-mail Address: citymanager@spearmantx.gov

B. Prefix: Mr. Last Name, First Name: Shields, Tobe

Title: Mayor Credential: N/A

Organization Name: City of Spearman

Mailing Address: City, State, Zip Code: Spearman Texas, 79081

Phone No.: <u>(806) 659-2524</u> E-mail Address:

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Parker, Justin

Title: <u>City Manager</u> Credential: <u>N/A</u>

Organization Name: City of Spearman

Mailing Address: P.O. Box 37 City, State, Zip Code: Spearman Texas, 79081

Phone No.: (806) 659-2524 E-mail Address: citymanager@spearmantx.gov

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

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

Prefix: Mr. Last Name, First Name: Parker, Justin

Title: <u>City Manager</u> Credential: <u>N/A</u>

Organization Name: City of Spearman

Mailing Address: P.O. Box 37 City, State, Zip Code: Spearman Texas, 79081

Phone No.: (806) 659-2524 E-mail Address: citymanager@spearmantx.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Parker, Justin

Title: <u>City Manager</u> Credential: <u>N/A</u>

Organization Name: City of Spearman

Mailing Address: P.O. Box 37 City, State, Zip Code: Spearman Texas, 79081

Phone No.: (806) 659-2524 E-mail Address: citymanger@spearmantx.gov

В.	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: Parker, Justin
	Title: <u>City Manager</u> Credential: <u>N/A</u>
	Organization Name: <u>City of Spearman</u>
	Mailing Address: P.O. Box 37 City, State, Zip Code: Spearman Texas, 79081
	Phone No.: (806) 659-2524 E-mail Address: citymanager@spearmantx.gov
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: <u>City Hall</u>
	Location within the building: <u>City Secretary's Office</u>
	Physical Address of Building: <u>30 Southwest Court</u>
	City: <u>Spearman</u> County: <u>Hansford</u>
	Contact (Last Name, First Name): <u>Parker, Justin</u>
	Phone No.: <u>(806) 659-2524</u> Ext.: <u>N/A</u>
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.
	 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

2. Are the students who attend either the elementary school or the middle school enrolled in

No

a bilingual education program at that school?

below.

 \boxtimes

Yes

	3.	Do the location		these	e schools attend a bilingual education program at another
			Yes		No
	4.			_	uired to provide a bilingual education program but the school has rement under 19 TAC §89.1205(g)?
			Yes	\boxtimes	No
	5.				uestion 1, 2, 3, or 4 , public notices in an alternative language are se is required by the bilingual program? Spanish
F.	Su	mmary	of Applicat	tion ir	n Plain Language Template
					of Application in Plain Language Template (TCEQ Form 20972), guage summary or PLS, and include as an attachment.
	At	tachme	nt: <u>2</u>		
G.	Pu	blic Inv	olvement F	lan F	orm
		-			ement Plan Form (TCEQ Form 20960) for each application for a dement to a permit and include as an attachment.
	At	tachme	nt: <u>N/A</u>		
Se	cti	on 9.	Regula Page 29		Entity and Permitted Site Information (Instructions
Α.			is currently N <u>10313792</u>	_	ated by TCEQ, provide the Regulated Entity Number (RN) issued to
					Registry at http://www15.tceq.texas.gov/crpub/ to determine if ed by TCEQ.
B.	Na	me of p	roject or sit	te (the	name known by the community where located):
	<u>Cit</u>	y of Spea	arman Waste	water	<u>Treatment Facility</u>
C.	Ov	vner of	treatment fa	acility	: City of Spearman
	Ov	vnership	of Facility:	\boxtimes	Public □ Private □ Both □ Federal
D.	Ov	vner of l	land where	treatn	nent facility is or will be:
	Pre	efix: <u>Cit</u> y	of Spearma	<u>n</u>	Last Name, First Name: <u>N/A</u>
	Tit	le: <u>N/A</u>			Credential: <u>N/A</u>
	Or	ganizati	ion Name: <u>C</u>	ity of S	<u>Spearman</u>
	Ma	iling Ac	ddress: <u>P.O.</u>	Box 37	City, State, Zip Code: <u>Spearman, Texas 79081</u>
	Ph	one No.	: <u>(806) 659-2</u>	<u> 2524</u>	E-mail Address: citymanager@spearmantx.gov
					same person as the facility owner or co-applicant, attach a lease d easement. See instructions.
		Attach	ment: <u>N/A</u>		

	Prefix: <u>N/A</u>	Last Name, First Name: <u>City of Spearman</u>
	Title: <u>N/A</u>	Credential: <u>N/A</u>
	Organization Name: City of Spear	r <u>man</u>
	Mailing Address: P.O. Box 37	City, State, Zip Code: Spearman Texas, 79081
	Phone No.: <u>(806) 659-2524</u>	E-mail Address: citymanager@spearmantx.gov
	If the landowner is not the same agreement or deed recorded eas	e person as the facility owner or co-applicant, attach a lease sement. See instructions.
	Attachment: N/A	
F.	Owner sewage sludge disposal s property owned or controlled by	ite (if authorization is requested for sludge disposal on y the applicant)::
	Prefix: <u>N/A</u>	Last Name, First Name: <u>City of Spearman</u>
	Title: <u>N/A</u>	Credential: <u>N/A</u>
	Organization Name: City of Spear	<u>rman</u>
	Mailing Address: P.O. Box 37	City, State, Zip Code: Spearman Texas 79081
	Phone No.: <u>(806) 659-2524</u>	E-mail Address: citymanager@spearmantx.gov
	If the landowner is not the same agreement or deed recorded eas	e person as the facility owner or co-applicant, attach a lease sement. See instructions.
	Attachment: N/A	
	 :	
Se	 :	ge Information (Instructions Page 31)
	ection 10. TPDES Dischar	ge Information (Instructions Page 31) lity location in the existing permit accurate?
	ection 10. TPDES Dischar	
	Is the wastewater treatment faci Yes No If no, or a new permit application	
	ection 10. TPDES Dischar Is the wastewater treatment faci Yes No	lity location in the existing permit accurate?
	Is the wastewater treatment faci Yes No If no, or a new permit application	lity location in the existing permit accurate?
A.	Is the wastewater treatment faci Yes No If no, or a new permit application of the content of t	lity location in the existing permit accurate?
A.	Is the wastewater treatment faci Yes No If no, or a new permit application of the content of t	lity location in the existing permit accurate? on, please give an accurate description:
A.	Is the wastewater treatment faci Yes No If no, or a new permit application Click to enter text. Are the point(s) of discharge and Yes No If no, or a new or amendment permit application No	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the
A.	Is the wastewater treatment faci Yes No If no, or a new permit application Click to enter text. Are the point(s) of discharge and Yes No If no, or a new or amendment propoint of discharge and the discharge and the discharge and the second seco	on, please give an accurate description: d the discharge route(s) in the existing permit correct?
A.	Is the wastewater treatment faci Yes No If no, or a new permit application Click to enter text. Are the point(s) of discharge and Yes No If no, or a new or amendment permit application No	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the
A.	Is the wastewater treatment faci Yes No If no, or a new permit application of discharge and the disc	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the
A.	Is the wastewater treatment faci Yes No If no, or a new permit application of discharge and the disc	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the
A.	Is the wastewater treatment faci Yes No If no, or a new permit application click to enter text. Are the point(s) of discharge and Yes No If no, or a new or amendment proport of discharge and the discharge and the discharge and click to enter text. Click to enter text.	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the harge route to the nearest classified segment as defined in 30
А.	Is the wastewater treatment faci Yes No If no, or a new permit application of the content text. Are the point(s) of discharge and the d	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the harge route to the nearest classified segment as defined in 30 s/are located: discharge to a city, county, or state highway right-of-way, or
А.	Is the wastewater treatment faci Yes No If no, or a new permit application of the content text. Are the point(s) of discharge and the point of discharge and the discharge	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the harge route to the nearest classified segment as defined in 30 s/are located: discharge to a city, county, or state highway right-of-way, or

E. Owner of effluent disposal site:

If yes , indicate by a check mark if:
☐ Authorization granted ☐ Authorization pending
For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
Attachment: Click to enter text.
For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.
ection 11. TLAP Disposal Information (Instructions Page 32)
<u>-</u>
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:
The effluent disposal site is located 2650 ft. West of the intersection of County Road U and Farm to Market 760
City nearest the disposal site: <u>Spearman</u>
County in which the disposal site is located: <u>Hansford</u>
For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:
Effluent is to be pumped through a force main to the disposal site adjacent to the treatment plant.
For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Horse Creek</u>
ection 12. Miscellaneous Information (Instructions Page 32)
Is the facility located on or does the treated effluent cross American Indian Land?
□ Yes ⊠ No
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.

C.	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: $\underline{N/A}$
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes , provide the following information:
	Account number: <u>N/A</u>
	Amount past due: <u>N/A</u>
E.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes , please provide the following information:
	Enforcement order number: <u>N/A</u>
	Amount past due: <u>N/A</u>
0	
56	ection 13. Attachments (Instructions Page 33)
In	dicate which attachments are included with the Administrative Report. Check all that apply:
	Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
\boxtimes	Original full-size USGS Topographic Map with the following information:
	Applicant's property boundary
	 Treatment facility boundary Labeled point of discharge for each discharge point (TPDES only)
	 Highlighted discharge route for each discharge point (TPDES only)
	 Onsite sewage sludge disposal site (if applicable) Effluent disposal site boundaries (TLAP only)
	 New and future construction (if applicable)
	• 1 mile radius information
	 3 miles downstream information (TPDES only) All ponds.
	Attachment 1 for Individuals as co-applicants
	Other Attachments. Please specify: <u>N/A</u>
_	other redefinence reduce openi, in i

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010977001

Applicant: City of Spearman

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): <u>Justin Parker</u>
Signatory title: City Manager
Signature: Date: $9/26/25$
Subscribed and Sworn to before me by the said Dana Shano, Notam Public
on this 26th day of September, 2025.
My commission expires on the 15th day of March , 2025.

Notary Public

County, Texas

Notary ID 129804381



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): <u>0.6</u>

2-Hr Peak Flow (MGD): <u>1.2</u>

Estimated construction start date: <u>2019</u> Estimated waste disposal start date: <u>2022</u>

B. Interim II Phase

Design Flow (MGD): <u>0.6</u>

2-Hr Peak Flow (MGD): <u>1.2</u>

Estimated construction start date: 2019

Estimated waste disposal start date: 2022

C. Final Phase

Design Flow (MGD): <u>0.6</u>

2-Hr Peak Flow (MGD): <u>1.2</u>

Estimated construction start date: <u>2019</u>

Estimated waste disposal start date: $\underline{2022}$

D. Current Operating Phase

Provide the startup date of the facility: 2022

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

Provide a detailed description of the treatment process. Include the type of treatment plant, mode of operation, and all treatment units. Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. If more than one phase exists or is proposed, a description of *each phase* must be provided.

A lagoon system consisting of a facultative lagoon, storage lagoon, and land application area.

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)	
Facultative Lagoon -	1	810' x 270' x 10' - 15'	
Storage Lagoon	1	810' x 383.5' x 13'	
Irrigation Pivots	2	166.6 acres and 75 acres	

C. Process Flow Diagram

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

Attachment: 4

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

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

Latitude: N/ALongitude: N/A

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

Latitude: 36.206675Longitude: -101.204743

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

Attachment: 5 Provide the name **and** a description of the area served by the treatment facility. City of Spearman, located in Hansford County, Texas 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 Owner Name Population Served Collection System Name Owner Type** 2964 City of Spearman City of Spearman **Publicly Owned** Wastewater Treatment **Facility** Choose an item. Choose an item. Choose an item. Section 4. Unbuilt Phases (Instructions Page 44) Is the application for a renewal of a permit that contains an unbuilt phase or phases? Yes ⊠ No If ves, 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. N/A

disposal site.

Section 5. Closure rights (instructions rage 44)
Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?
□ Yes ⊠ No
If yes, was a closure plan submitted to the TCEQ?
□ Yes □ No
If yes, provide a brief description of the closure and the date of plan approval.
N/A
Section 6. Permit Specific Requirements (Instructions Page 44)
For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.
A. Summary transmittal
Have plans and specifications been approved for the existing facilities and each proposed phase?
⊠ Yes □ No
If yes, provide the date(s) of approval for each phase: 04/16/2019
Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable.
Notify TCEQ within 60 days of construction completion
B. Buffer zones
Have the buffer zone requirements been met?
Vos □ 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.

	N/	\mathbf{A}
C.	Ot	her actions required by the current permit
	su	bes the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		yes, provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	N/	A
D.		it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		N/A

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.
		N/A
	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.
E.	Sto	ormwater management
	1.	Applicability
		Does the facility have a design flow of 1.0 MGD or greater in any phase?
		□ Yes ⊠ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		□ Yes ⊠ No
		If no to both of the above , then skip to Subsection F, Other Wastes Received.
	2.	MSGP coverage
		Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		carrents) permetted under the 11525 Matri Sector General Termit (MSGI), 124600000.
		☐ Yes ☐ No
		☐ Yes ☐ No If yes, please provide MSGP Authorization Number and skip to Subsection F, Other
		☐ Yes ☐ No If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

	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:
	N/A
1 1	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.
	N/A
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.
	N/A
J	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 group of facilities with
	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 cowage cludge (including dedicated lands for cowage cludge disposal

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

3. Conditional exclusion

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.
		N/A
	!	Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
	If : <u>N/</u>	yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. $\underline{\mathbf{A}}$
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		N/A
	'	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
	۷.	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.
The City of Spearman accepts an average of 45,000 gallons of septic waste per month.
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.
N/A
Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)
Is the facility in operation?
⊠ Yes □ No
If no this section is not applicable Proceed to Section 8

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

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

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

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

^{*}TPDES permits only

Table 1.0(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	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃), mg/l	N/A	N/A	N/A	N/A	N/A

[†]TLAP permits only

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Steven T. Dettner

A.

B.

Facility Operator's License Classification and Level: MSW, Class A

Facility Operator's License Number: #SW008049

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

WW	TP's Sewage Sludge or Biosolids Management Facility Type
Che	ck all that apply. See instructions for guidance
	Design flow>= 1 MGD
	Serves >= 10,000 people
	Class I Sludge Management Facility (per 40 CFR § 503.9)
	Biosolids generator
	Biosolids end user – land application (onsite)
	Biosolids end user – surface disposal (onsite)
	Biosolids end user – incinerator (onsite)
ww	TP's Sewage Sludge or Biosolids Treatment Process
Che	ck 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. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: City of Spearman Municipal Waste Landfill

TCEQ permit or registration number: 2352

County where disposal site is located: Hansford County

E. Transportation method

Method of transportation (truck, train, pipe, other): Front end Loader

Name of the hauler: City of Spearman Municipal Waste Landfill

Hauler registration number: 2352

Sludge is transported as a:

Liquid □ semi-liquid □	semi-solid □	solid \boxtimes
------------------------	--------------	-------------------

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

A. Beneficial use authorization

Does the	existing	permit i	nclude	author	ization	for	land	applie	cation	of l	oiosc	lids	for
beneficia	ıl use?												

□ Yes ⊠ No

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

□ Yes □ No

		yes, is the completed Application for Permit for Beneficial Land Use of Sewage Sludge CEQ Form No. 10451) attached to this permit application (see the instructions for tails)?									
		Yes \square	No								
B.	Sludge	processir	g authorization								
		the existing permit include authorization for any of the following sludge processing, ge or disposal options?									
	Slud	lge Compo	osting			Yes	\boxtimes	No			
	Mar	keting and	l Distribution of Biosoli	ds		Yes		No			
	Slud	Sludge Surface Disposal or Sludge Monofill				Yes	\boxtimes	No			
	Temporary storage in sludge lagoons			;		Yes	\boxtimes	No			
	authori	zation, is	ne above sludge options the completed Domest t (TCEQ Form No. 100 5 No	ic Wastew	vate	r Permi	t Appl	ication: Sewage Sludge			
Se	ection	11. Sev	age Sludge Lagoo	ns (Ins	truc	ctions	Page	2 53)			
Do	es this f	acility inc	lude sewage sludge lage	oons?							
	□ Ye	s 🗵 No)								
If	yes, com	plete the	remainder of this section	n. If no, p	oroc	eed to S	ection	12.			
A.	Locatio	n informa	ntion								
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:										
	A	Attachment: <u>N/A</u>									
	• USDA Natural Resources Conservation Service Soil Map:										
	A	Attachment: <u>N/A</u>									
	• Federal Emergency Management Map:										
	A	Attachme	nt: <u>N/A</u>								
	• 5	Site map:									
	A	Attachme	nt: <u>N/A</u>								
	Discuss apply.	s in a desc	ription if any of the fol	lowing exi	ist w	ithin th	ie lago	on area. Check all that			
	Overlap a designated 100-year frequency flood plain										
		□ Soils with flooding classification									
	□ Overlap an unstable area										
		Wetlands									

_
□ None of the above
Attachment: N/A
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:
N/A

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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: <u>N/A</u>

Located less than 60 meters from a fault

Phosphorus, mg/kg: <u>N/A</u>
Potassium, mg/kg: <u>N/A</u>

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A
Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: <u>N/A</u>

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

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.
	N/A
D.	Site development plan
	Provide a detailed description of the methods used to deposit sludge in the lagoon(s):
	N/A
	Attach the following documents to the application.
	 Plan view and cross-section of the sludge lagoon(s)
	Attachment: N/A
	Copy of the closure plan
	Attachment: <u>N/A</u>
	 Copy of deed recordation for the site
	Attachment: <u>N/A</u>
	• Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
	Attachment: <u>N/A</u>
	 Description of the method of controlling infiltration of groundwater and surface water from entering the site
	Attachment: <u>N/A</u>
	 Procedures to prevent the occurrence of nuisance conditions
	Attachment: <u>N/A</u>
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: N/A

Section 12 Authorizations/Compliance/Enforcement (Instructions

Page 54)
A. Additional authorizations
Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?
□ Yes ⊠ No
If yes, provide the TCEQ authorization number and description of the authorization:
N/A
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:
N/A

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

A. RCRA hazardous wastes

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: N/A

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Justin Parker

Title: City Manager

Signature:

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

ldenti	fy the method of land disposal:				
	Surface application		Subsurface application		
\boxtimes	Irrigation		Subsurface soils absorption		
	Drip irrigation system		Subsurface area drip dispersal system		
	Evaporation		Evapotranspiration beds		
	Other (describe in detail): Click	to e	nter text.		
NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.					

For existing authorizations, provide Registration Number: <u>Click to enter text.</u>

Section 2. Land Application Site(s) (Instructions Page 67)

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

Table 3.0(1) - Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native grass, Pastureland (Warm Season)	241.8	400,000	N
Rye grass (Overseed during cool season)	241.8	400,000	N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) - Storage and Evaporation Ponds

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

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	4.93	44.39	810' x 270'	Compacted Clay
2	7.04	74.80	810' x 383.5'	Compacted Clay

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

Attachment: 7

Section 4. Flood and Runoff Protection (Instructions Page 67)					
Is the land application site within the 100-year frequency flood level?					
□ Yes ⊠ No					
If yes, describe how the site will be protected from inundation.					
N/A					
Provide the source used to determine the 100-year frequency flood level:					
USGS map and topographic survey					

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

The proposed disposal area is located in an area that has slopes from 0% to 3%. The infiltration rate of the soil according to the Soil Survey of Hansford County, Texas is shown to range from 0.5 to 2.0 inches per hour. The application rate proposed will be less than the intake rate of the soil. It is proposed to have an automatic cut-off switch on the sprinkler system should there be a line break. It is proposed to construct a berm around the sprinkler system to prevent runoff and run on from minor rainfall events.

Section 5. Annual Cropping Plan (Instructions Page 67)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: **8**

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

Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: 9

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

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

Table 3.0(3) - Water Well Data

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

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

Attachment: 10

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: 1	1
---------------	---

Are groundwater monitoring wells available onsite? \square Yes \boxtimes No Do you plan to install ground water monitoring wells or lysimeters around the land application site? \square Yes \boxtimes No

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

Attachment: N/A

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: 12

B. Soil analyses

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

Attachment: 13

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

Table 3.0(4) - Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

\boxtimes	Yes	No

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

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

Table 3.0(5) - Effluent Monitoring Data

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

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

Click to enter text.			

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

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

Categorical IUs: Number of IUs: <u>0</u> Average Daily Flows, in MGD: 0

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

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.

N/A	

	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.
	N/A
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.
Se	ection 2. POTWs with Approved Programs or Those Required to
	Develop a Program (Instructions Page 87)
Α.	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 <i>40 CFR §403.18</i> ?
	□ Yes □ No
F	If yes , identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	N/A

C. Treatment plant pass through

		any non-substantial e not been submitte			
	□ Yes □	No	•		•
		non-substantial mo		have not been	submitted to TCEQ,
	N/A				
	7.00	1 .1 .7			
C.	_	ers above the MAL		o MAI in the D	OTM/s officert
		st all parameters me g the last three year			
Та	ble 6.0(1) – Parame	eters Above the MAL			
Po	llutant	Concentration	MAL	Units	Date
D.	Industrial user in	_			
		or other IU caused bass throughs) at yo			
	□ Yes □	No			
		e industry, describe and probable pollut		icluding dates	, duration, description
	N/A				

B. Non-substantial modifications

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

	General information
	Company Name: <u>N/A</u>
	SIC Code: N/A
	Contact name: <u>N/A</u>
	Address: <u>N/A</u>
	City, State, and Zip Code: <u>N/A</u>
	Telephone number: <u>N/A</u>
	Email address: <u>N/A</u>
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
C.	Product and service information Provide a description of the principal product(s) or services performed.
c.	
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
C. [Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed. N/A Flow rate information
	Provide a description of the principal product(s) or services performed. N/A
	Provide a description of the principal product(s) or services performed. N/A Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater:
	Provide a description of the principal product(s) or services performed. N/A Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: N/A
	Provide a description of the principal product(s) or services performed. N/A Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: N/A Discharge Type: Continuous Batch Intermittent
	Provide a description of the principal product(s) or services performed. N/A Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: N/A Discharge Type: □ Continuous □ Batch □ Intermittent Non-Process Wastewater:
	Provide a description of the principal product(s) or services performed. N/A Flow rate information See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater: Discharge, in gallons/day: N/A Discharge Type: Continuous Batch Intermittent

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the <i>i</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: <u>N/A</u>
	Click or tap here to enter text. N/A
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
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.
	N/A

Attachment 1 – Core Data From (Administrative Report 1.0 – Item 3C)

Attachment 2 – Summary of Application in Plain Language (Administrative Report 1.0 – Item 8F)

Attachment 3 – USGS Topographic Map (Administrative Report 1.0 – Item 13)

Attachment 4 – Process Flow Diagram (Technical Report 1.0 – Item 2C)

Attachment 5 – Site Drawing (Technical Report 1.0 – Item 3)

Attachment 6 – Pollutant Analysis Treated Effluent (Technical Report 1.0 – Item 7)

Attachment 7 – Liner Certification (Technical Report 3.0 – Item 3)

Attachment 8 – Annual Cropping Plan (Technical Report 3.0 – Item 5)

Attachment 9 – USGS Map (Technical Report 3.0 – Item 6)

Attachment 10 – Well Log (Technical Report 3.0 – Item 6)

Attachment 11 – Groundwater Quality Report (Technical Report 3.0 – Item 7)

Attachment 12 – Soil Map (Technical Report 3.0 – Item 8A)

Attachment 13 – Soil Analysis Lab Results (Technical Report 3.0 – Item 8B)

Attachment 14 – Copy of Payment

Domestic Administrative Report 1.0
3. Facility Owner (Applicant) and Co-Applicant Information Item (c) Core Data Form



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 li		3. Re	gulated Entity Re	ssued)				
CN 6002512	35			Central Re		RN 1	.03137923					
SECTIO	N II:	Custome	r Inforr	<u>matio</u>	<u>1</u>							
4. General Cu	istomer In	formation	5. Effective	Date for Cu	istomer Info	rmation	Updates (mm/dd,	/уууу)		9/10/2025		
☐ New Custor	mer	×υ	pdate to Custor	mer Informat	tion	☐ Char	nge in Regulated En	titv Own	ership			
		Verifiable with the Te	•			_		,				
	-6	,	, , ,				, , , , , , , , , , , , , , , , , , , ,					
The Custome	r Name su	bmitted here may	be updated a	utomaticall	lv based on v	what is c	urrent and active	with th	ne Texas Sec	retary of State		
		oller of Public Acco			,					,		
6. Customer I	Legal Nam	e (If an individual, pri	nt last name fir.	st: eg: Doe, J	ohn)		If new Customer, enter previous Customer below:					
City of Spearma	an											
7. TX SOS/CP	A Filing N	umber	8. TX State	Tax ID (11 di	igits)		9. Federal Tax I	D	10. DUNS I	Number (if		
							applicable)					
			75-6000673			(9 digits)						
						75 6000673						
						75-6000673						
11. Type of C	ustomer:	☐ Corpora	tion			Individ	Individual Partnership: General Limited					
Government:	City 🔲 C	County 🗌 Federal 📗	Local State	Other		Sole Proprietorship Other:						
12. Number o	of Employ	ees					13. Independer	ntly Ow	Owned and Operated?			
	_		_			_						
0-20	21-100] 101-250 251-	500 501 ;	and higher			Yes	⊠ No				
14. Customer	Role (Pro	posed or Actual) – as i	it relates to the	Regulated Er	ntity listed on	this form.	Please check one o	f the follo	owing			
Owner	Owner Operator Owner & Operator											
Occupation	Occupational Licensee Responsible Party VCP/BSA Applicant Other:											
15. Mailing	City of Sp	earman										
Address:	P.O. Box 3	37		_								
Audiess.	City	Spearman		State	TX	ZIP	79081 ZIP + 4 0037					

TCEQ-10400 (11/22) Page 1 of 3

16. Country Mailing Information (if outside USA)					17. E-Mail Address (if applicable)						
				citymana	ger@spearn	nantx.gov					
18. Telephone Number			19. Extension or	Code	ode 20. Fax Number (if applicable)						
(806) 659-2524						(806)6	59-3859				
SECTION III:	Regul	ated Er	ntity Inform	matio	<u> </u>						
21. General Regulated En	tity Informa	tion (If 'New Re	egulated Entity" is selec	cted, a new p	ermit applic	ation is also	required.)				
☐ New Regulated Entity	Update to	Regulated Entity	y Name 🔲 Update	to Regulated	Entity Inforr	nation					
The Regulated Entity Nar as Inc, LP, or LLC).	me submitte	d may be updo	ated, in order to med	et TCEQ Coi	re Data Sta	ndards (re	moval of or	ganization	al endings such		
22. Regulated Entity Nam	n e (Enter nam	e of the site whe	ere the regulated action	n is taking plo	ice.)						
City of Spearman Wastewate	r Treatment F	Plant									
23. Street Address of the Regulated Entity:											
		1		T	ı	ı					
(No PO Boxes)	City		State		ZIP			ZIP + 4			
24. County	Hansford										
		If no Stre	eet Address is provic	led, fields 2	5-28 are re	equired.					
25. Description to		•	e northwest of the inte			State Highwa	ıy 15 and 1.6	miles north	east of the		
Physical Location:	intersection	of State Highwa	y 15 and FM 2387 in H	ansford Cour	nty Texas						
26. Nearest City						State		Near	est ZIP Code		
Spearman						TX			79081		
Latitude/Longitude are re used to supply coordinate	-	-	-		ata Stando	ards. (Geod	oding of th	e Physical	Address may be		
27. Latitude (N) In Decim	al:	36.206675		28. Lo	ongitude (\	W) In Decin	nal:	-101.2047	43		
Degrees	Minutes		Seconds	Degre	es	М	inutes		Seconds		
36	:	12	24.03		101		12		21.24		
29. Primary SIC Code	30.	Secondary SIC	Code	31. Primar	-	ode	32. Seco	ndary NAIC	S Code		
(4 digits)	(4 digits) (5 or 6 digits) (5 or 6 digits)										
4953				22132							
33. What is the Primary E	Business of t	his entity? (D	Do not repeat the SIC or	r NAICS descr	iption.)		1				
34. Mailing	City of Spe	arman									
Address:	P.O. Box 37										

TCEQ-10400 (11/22) Page 2 of 3

		City	Spearman		State	State TX		ZIP 79081		ZIP +	4	
35. E-Mail Address: citymanager@spearmantx.gov												
36. Telephone N	umber			37.	Extension or (Code		38. Fa	ax Number (if ap	oplicable)		
(806) 659-2524								()	¥.			
39. TCEQ Program form. See the Core D						iits/registra	tion nu	umbers t	that will be affect	ed by the upda	tes si	ubmitted on this
☐ Dam Safety		Distr	icts	☐ Ed	wards Aquifer		E	missions	s Inventory Air	☐ Indu	trial	Hazardous Waste
Municipal Solid	Waste	Review A		os	SF		□P	etroleur	π Storage Tank	PWS		
Sludge		Storr	m Water	Tit	le V Air		Пт	ires		Used	Used Oil	
☐ Voluntary Clear	nup	⊠ Wast	tewater	☐ Wa	☐ Wastewater Agriculture ☐ Water			Vater Rights Ot			r:	
		WQ0010	0183001									
SECTION	IV: F	repar	er In	form	ation							
40. Name: Ad	olfo Garcia					41. Title	:	Enginee	er			
42. Telephone Nu	mber	43. Ext./	Code	44. Fax I	Number	45. E-N	1ail A	ddress				
(806) 353-7233			1	(806)35	3-7261	adolfog	@hpce	tx.com				
SECTION	V: A	uthor	ized S	Signa	ature	1						
46. By my signature to submit this form of	below, I ce	rtify, to the b	est of my kr	nowledge,	that the informa							
Company:	City of S	pearman				Job Title	:	City M	lanager			
Name (In Print):	Justin Pa	arker	A-1						Phone:	(806) 659	- 252	4
Signature:	(2	12						Date:	9/26	/2	025
	/											

TCEQ-10400 (11/22) Page 3 of 3

Domestic Administrative Report 1.0 8. Public Notice Information Item (f) Summary of Application in Plain Language Template



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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.

City of Spearman (CN 600251235) operates The City of Spearman Wastewater Treatment Facility (RN 103137923), a Texas Land Application Permits. The facility is located at approximately 1 mile northwest of the intersection of FM 760 and State Highway 15 and 1.6 miles northeast of the intersection of State Highway 15 and FM 2387, in Spearman, Hansford County, Texas 79081. Renewal for disposal of treated domestic wastewater effluent at a daily average flow not exceeding 0.40 million gallons per day (MGD) via surface irrigation of 241.8 acres of non-public access land. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (CBOD₅), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Treated domestic wastewater is treated by first entering a facultative lagoon, followed by treatment in two stabilization ponds. After treatment, the effluent is stored in two storage ponds. The final step is surface irrigation of non-public access land using the treated and stored effluent.

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

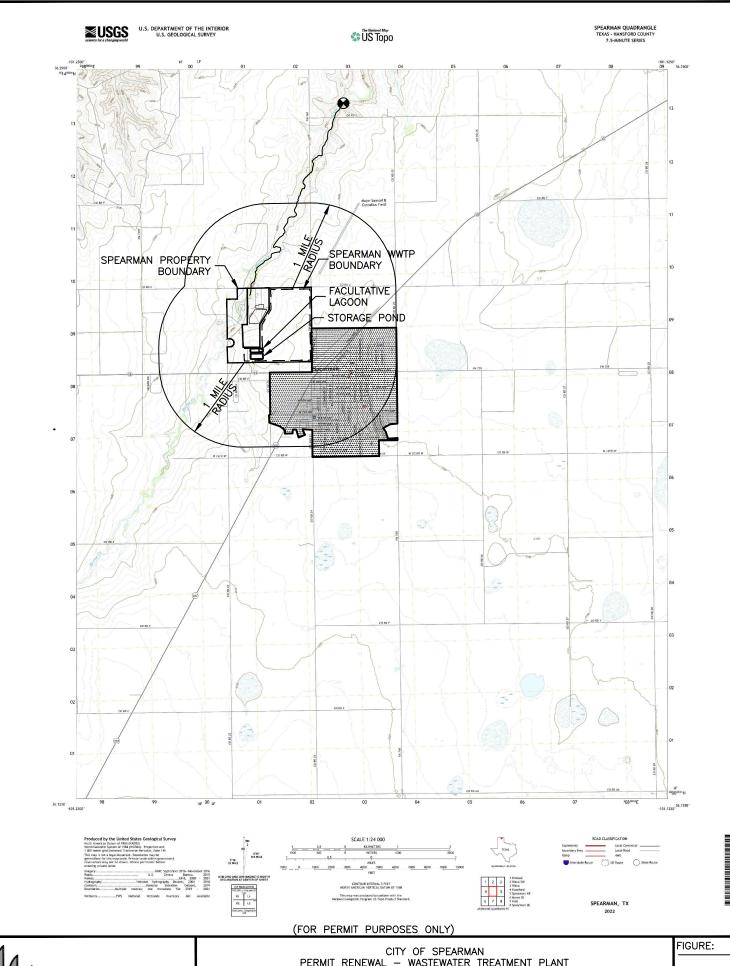
AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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.

Ciudad de Spearman (CN600251235) opera la planta de tratamiento de aguas residuales de la ciudad de Spearman RN103137923, un Sistema de laguna facultativa. La instalación está ubicada en 2650 pies al oeste de la nterseccion de County Road U y Farm to Market 790, en Spearman, Condado de Hansford, Texas 79081. Solicitud de renovacion. << Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquemica de oxigeno (BOD5) de cinco dias. Aguas residuales domesticas. están tratado por un Sistema de laguna facultiva y estanque de almacenamiento.

Domestic Administrative Report 1.0 13. Attachments Original full-size USGS Topographic Map



CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174 4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

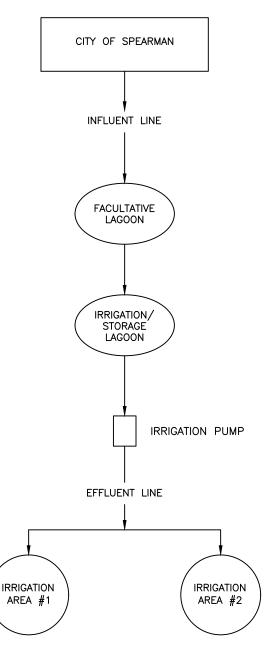
CITY OF SPEARMAN
PERMIT RENEWAL — WASTEWATER TREATMENT PLANT

USGS MAP WASTEWATER TREATMENT PLANT

PROJ. NO. 82989 DATE: SEPTEMBER 2025 SCALE: 1"=6000"

Domestic Technical Report 1.0 2. Treatment Process Process Flow Diagram

CITY OF SPEARMAN WASTEWATER TREATMENT PLANT



LAGOON SURFACE AREA							
FACULTATIVE	4.94 ACRES						
STORAGE	7.03 ACRES						
TOTAL:	11.97 ACRES						

IRRIGATION AREA						
AREA #1	166.6 ACRES					
AREA #2	75.2 ACRES					
TOTAL:	241.8 ACRES					

(FOR PERMIT PURPOSES ONLY)

CITY OF SPEARMAN
PERMIT RENEWAL — WASTEWATER TREATMENT PLANT

FLOW DIAGRAM WASTEWATER TREATMENT PLANT

PROJ. NO. 82989 DATE: SEPTEMBER 2025

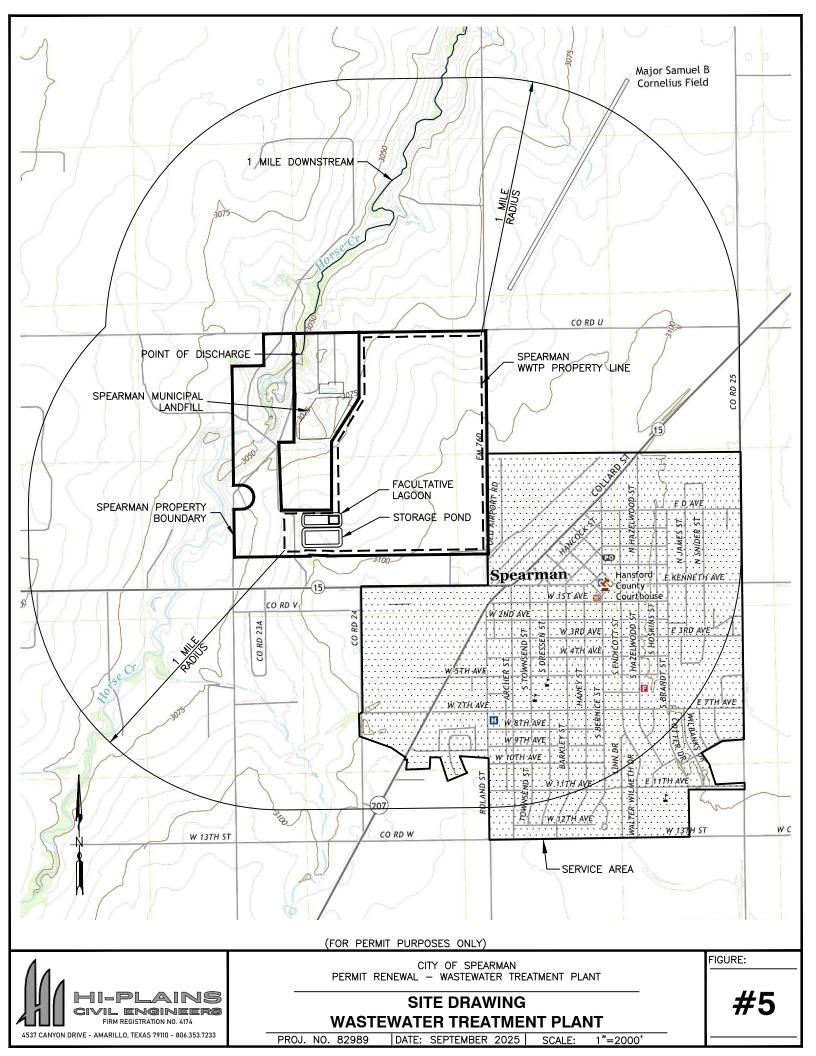
SCALE:

N/A

CIVIL ENGINEERS FIRM REGISTRATION NO. 4174 4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

FIGURE:

Domestic Technical Report 1.0
3. Site Information and Drawing
Attached Site Map



Domestic Technical Report 1.0 7. Pollutant Analysis of Treated Effluent data

DOMESTIC TECHNICAL REPORT 1.0

7. POLLUTANT ANALYSIS OF TREATED EFFLUENT

Table 1.0 (2) Pollutant Analysis for Wastewater Treatment Facilities

The Pollutant Analysis for The Wastewater Treatment Facility will be submitted to TCEQ upon completion of testing.

Domestic Technical Report 3.0
3. Storage and Evaporation Lagoons/Ponds
Liner Certification



Braun Intertec Corporation 215 S. Fannin Amarillo, TX 79109

Phone: 806.677.0600 Web: braunintertec.com

July 30, 2021

City of Spearman P.O. Box 37 Spearman, TX 79081

Re:

Letter of Certification

B1909776: City of Spearman Wastewater Treatment Plant

Facultative Lagoon - Placed Clay Liner Hwy. 15, 1 mile west of Hwy. 207

Spearman, TX 79081

Dear City of Spearman:

It has been requested that Braun Intertec Corporation provide a "Letter of Certification" for the work performed at the City of Spearman Wastewater Treatment Plant. Braun sampled and performed the laboratory testing for the placed clay liner.

Based on a review of our records, the placed clay liner meets the TCEQ requirements for percent passing the No. 200 sieve, liquid limit, plasticity index, and hydraulic conductivity.

Should you have any questions, comments or require additional information, please do not hesitate to contact us at 806.677.0600.

Respectfully Submitted,

Shane Nance, P.E.

Shane Nance, P.E.

Business Unit Leader / Senior Engineer



Davis Geomatics, LLC

Professional Geomatic Consultants J.D. Davis, RPLS, LSLS, CFedS Licensed State Land Surveyors Colorado•Kansas•Oklahoma•Texas

Certified Federal Surveyors

Professional Land Surveyors

August 22, 2021

City of Spearman 30 Southwest Ct. Spearman, Texas 79801

RE: City of Spearman Irrigation Storage Lagoon Contruction

It has been requested that Davis Geomatics, LLC provide a "Letter of Certification" for the work performed at the City of Spearman Wastewater Treatment Plant for the Irrigation Storage Lagoon. Davis Geomatic, LLC took sub-grade elevation measurements and finished clay liner surface elevation measurements.

Based on a review of our records, the clay liner meets the TCEQ requirements for a thickness of 3.00 feet for water depths of greater than 8.0 feet.

J Pavis LSBS FILS FILS LS, CFedS



Davis Geomatics, LLC

Professional Geomatic Consultants
J.D. Davis, RPLS, LSLS, CFedS
Licensed State Land Surveyors
Colorado•Kansas•Oklahoma•Texas

Certified Federal Surveyors

Professional Land Surveyors

August 22, 2021

City of Spearman 30 Southwest Ct. Spearman, Texas 79801

RE: City of Spearman Facultative Lagoon Contruction

It has been requested that Davis Geomatics, LLC provide a "Letter of Certification" for the work performed at the City of Spearman Wastewater Treatment Plant for the Facultative Lagoon. Davis Geomatic, LLC took sub-grade elevation measurements and finished clay liner surface elevation measurements.

Based on a review of our records, the clay liner meets the TCEQ requirements for a thickness of 3.00 feet for water depths of greater than 8.0 feet.

J.D. Davis, LSUS, RPLS, P.S. be/CFedS Davis Geomatics, N.C. Survivors

ATTACHMENT 8

Domestic Technical Report 3.0 5. Annual Cropping Pan Annual Cropping Plan

DOMESTIC WORKSHEET 3.0 - LAND DISPOSAL OF EFFLUENT

5. ANNUAL CROPPING PLAN

1. Crop Type & Soil Map,

The City of Spearman operates a TLAP WWTP and uses effluent for irrigation.

100% of the 241.8-acre area irrigated by wastewater effluent is planted with perennial pasture consisting of native grasses. Soil survey maps, including the designated irrigation areas, are provided in Attachment 12.

2. Crop Growing Season & Nutrient Requirements

Perennial grasses in the region are capable of year-round growth, only going dormant during very dry or cold conditions. The consumptive use of water for perennial pasture, as outlined in the Texas Board of Water Engineers Bulletin 6019, is 90% of the consumptive use of alfalfa. This 90% value was used for the water balance calculation. The average consumptive water use for grasses is 46.17 inches per year.

According to the EPA (625/1-81-013) *Design Manual for Land Treatment of Municipal Wastewater*, nitrogen uptake values are as follows:

- Bermuda grass: 356–602 lb/acre/year
- Fescue grass: 134–290 lb/acre/year
 Data from the *Journal of Range Management* indicate that Blue Grama grass recovers similar amounts of applied nitrogen as Sudan grass and Bermuda grass. The current nitrogen loading rate is unknown due to test results not being available at this time. For the purposes of this cropping plan, the nitrogen loading rate is estimated at approximately 42 lb/acre/year. This estimate is subject to change upon initiation of the new facilities.

3. Proposed Crop Table

Crops proposed in designated areas include the following:

Crop	Designated Area	Growing Season	Nitrogen Requirement #/acre	Water Requirement acre-feet/acre	Harvests
Native Grass	241.8	April-Aug.	0-250	5.0	1-2
Rye Grass	241.8	SeptMay	0-250	5.0	1

4. Supplemental Watering & Fertilization

The perennial grasses do not require any supplemental watering or fertilization beyond the applied effluent. The area is currently sustaining grass growth without additional irrigation or fertilization.

5. Salt Tolerances

- **Rye Grass**: Relatively salt tolerant
 - Electrical Conductivity (EC): 6.0–8.0 milliohms/cm at 25°C
- Blue Grama Grass: Highly salt tolerant
 - o Electrical Conductivity (EC): 8.0-12.0 milliohms/cm at 25°C

For water balance calculations, an EC value of 7.0 milliohms/cm was used. Refer to Attachment 8 for detailed water balance calculations.

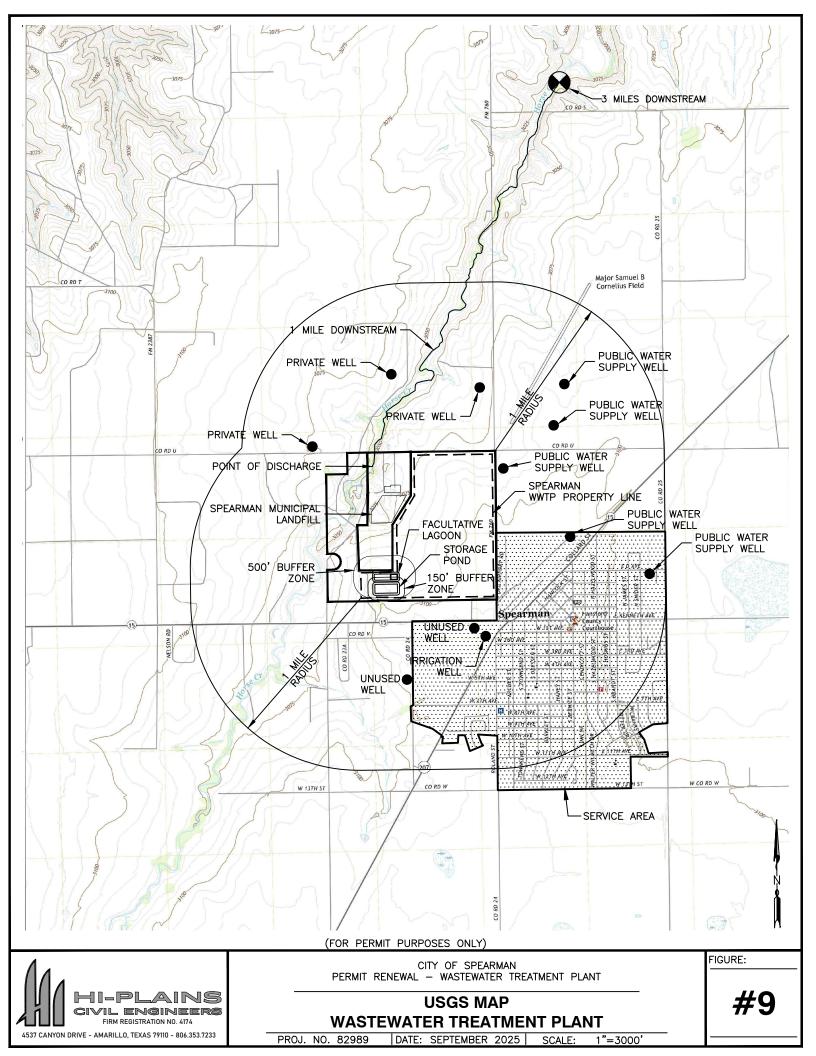
Data source: 31 TAC 309.20 Subchapter C. *Land Disposal of Sewage Effluent*, Table 3: Salt Tolerance of Various Crop Plants.

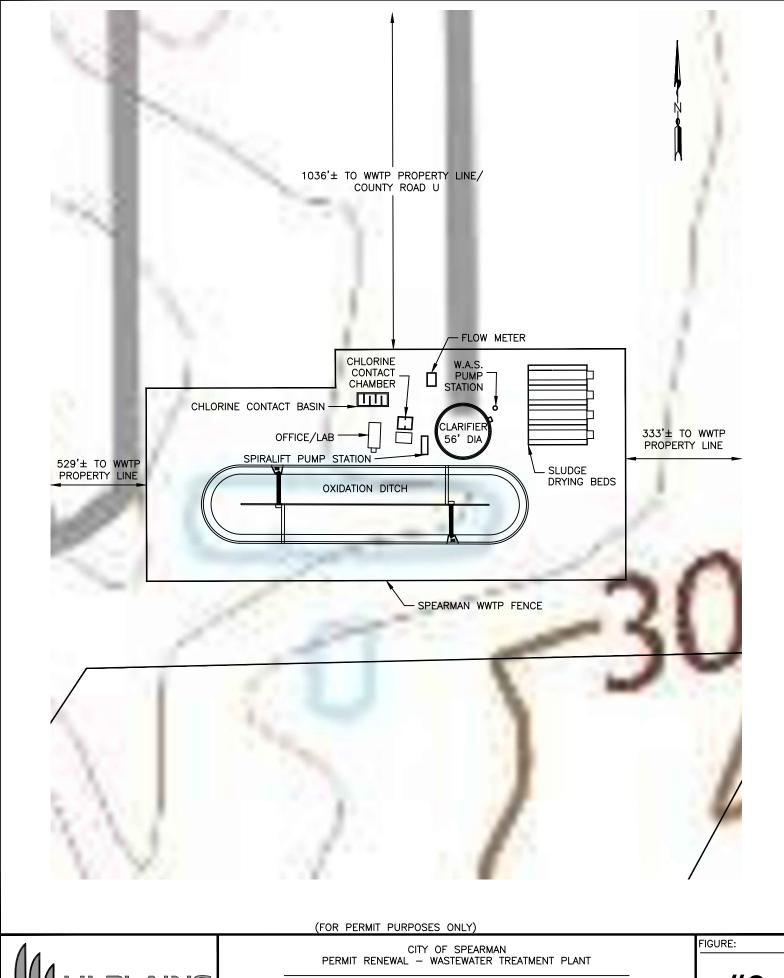
6. Harvesting Methods

Grass crops are managed through grazing. The total pasture area is 385 acres, of which 241.8 acres are designated for wastewater disposal. Grass crops are alternated annually between grazing and cutting. During cutting years, 1 to 2 cuttings may be required. The cuttings are swathed and baled. Cattle grazing allows the facility to operate without requiring grass to be harvested each year.

ATTACHMENT 9

Domestic Technical Report 3.0 6. Well and Map Information USGS Map





CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174 4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

USGS MAP WASTEWATER TREATMENT PLANT

PROJ. NO. 82989 | DATE: SEPTEMBER 2025 | SCALE: 1"=100"

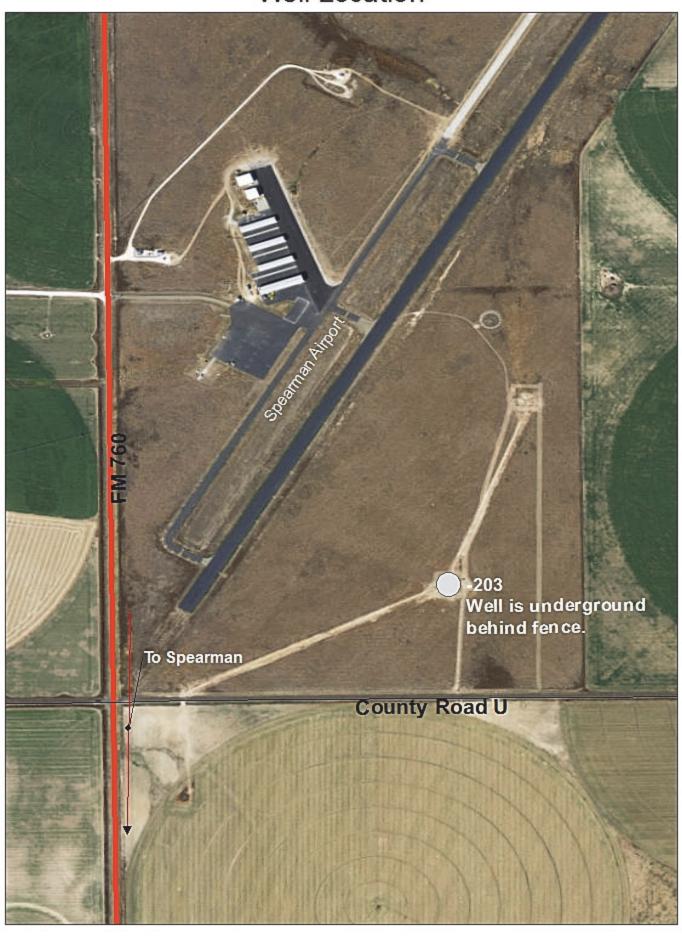
#9

ATTACHMENT 10

Domestic Technical Report 3.0 6. Well and Map Information Well Log

Well ID	Well Use	Producing? Y/N	Open, Cased, Capped, or Plugged?	Proposed Best Management Practice	Meets Buffer
3555212	Public Supply	Υ	Cased	TCEQ Regulations	Υ
353514	Public Supply	Υ	Cased	TCEQ Regulations	Υ
355202	Public Supply	Υ	Cased	TCEQ Regulations	Υ
355506	Public Supply	Υ	Cased	TCEQ Regulations	Υ
355504	Public Supply	Υ	Cased	TCEQ Regulations	Υ
355501	Irrigation	Υ	Cased	TCEQ Regulations	Υ
355502	Unused	N	Cased	TCEQ Regulations	Υ
355401	Unused	N	Cased	TCEQ Regulations	Υ
60619	Industrial	Υ	Cased	TCEQ Regulations	Υ
14086	Private	Υ	Cased	TCEQ Regulations	Υ
271896	Irrigation	Υ	Cased	TCEQ Regulations	Υ
165753	Industrial	Υ	Cased	TCEQ Regulations	Υ
71864	Irrigation	Υ	Cased	TCEQ Regulations	Υ

SWN 03-55-203 Well Location



WQ FY 2	016			<u>T\</u>	NDB Wa	ter Quali	ty Field	Data Sh	<u>ieet</u>		Newly Inventori	ed Well
			- -	Name: Address:	City Po Bo Spear	<u>x 37 [</u>	100rman 74081		- - -		ID Number: Date: Sampler(s):	847 9-21-16 EP
Aquifer Id:			-	Attention:	Chris	Poglas			- -			
			W	ell Name or #:	_11						Calibration Ve	rification Readings
1	2	3	4	5	6	7	8	9	10	11	pН	SLOPE = D Q
250 ml filtered	500 ml filtered	250 ml filtered	1 Liter filtered	1 Liter filtered	1 Liter filtered	40 ml unfittered						7= 7,03
Cation	Anions/T. Alk.	Nitrate	Gross	Radium	Radium	Atrazine						4 or 10 = 4
			Alpha	226	228						Conductivity	500 = 486
HNO ₃	ICE	ICE + H2SO4	HNO3 by lab	HNO ₃ by lab	HNO ₃ by lab	ICE						1000 = 1001
		· · · · · ·									7	2000 = 1441
												5000 = 4 7 1D
Time In:	10:10				Time Out:	10:50						
•		-									Field A	Ikalinity Titration
Water Level:			M.P. =		W.L. remark:							
•		-			='						7.50	Start nH
Pumping time:		_		Sa	ampling Point:	FAW					11/10	
	0										4.48	End pH
Well Use:	<u></u>	<u>-</u>				.S. readings					50	mL Sample Size
Lift:	5				Latitude:	36 12	53.3					mL Acid Phenol (> 8.3)
Dawor	E	-				10111		•			11.14	
Power.		•			Longitude:	10 1 11	10.1	-			mL acid added x 20	mL Acid Total (to pH 4.5) = Alkalinity
Casing Type:					Casing Size:							,
•		•			3					Phenoi	Alkalinity (82244):	mg/L
Sample Time:	10:25			F	ilter pressure:	hand pump (li	ine/ spring sa	moler			-	
- Campio Timo:		-		•	mor production.	mane pamp (Total	Alkalinity (39086):	228
	Water Quality	Stabilization	Parameters T	able (At least 3	readings @ 5	min. intervals)						
Time		10:50	10:25						1	110003	: Undergr	DO NA
	6.45	7.20	7,35							1	-	
pH Calaina Tana												
Celsius Temp.	18.2	17.4	17.4									
Conductivity	981	986	Ú83						1	I		

STATE OF TEXAS WELL REPORT for Tracking #353512

Owner:

City of Spearman

Owner Well #:

Well #11

03-55-2

Address:

30 SW Court

Spearman, TX 79081

Grid #: Latitude:

36° 12' 53" N

Well Location:

Spearman, TX

Longitude:

101° 11' 40" W

Well County:

Hansford

Elevation:

No Data

Type of Work: New Well

Proposed Use:

Public Supply

Drilling Start Date: 12/2/2013

Drilling End Date: 12/21/2013

Plans Approved by TCEQ - YES

Borehole:

Diameter (in.)

Top Depth (ft.)

Bottom Depth (ft.)

22

0

663

Drilling Method:

Reverse Circulation

Borehole Completion:

Filter Packed

Top Depth (ft.)

Bottom Depth (ft.)

Filter Material

Size

Filter Pack Intervals:

365

Gravel

12/20 16/3

Top Depth (ft.) 0

360

663

Description (number of sacks & material)

Annular Seal Data:

360

365

Bottom Depth (ft.)

13 bentonite

528 cement

Seal Method: Pressure cement through

tremie pipe

Distance to Property Line (ft.): No Data

Sealed By: Hydro Resources/Perryton

Redi Mix

Distance to Septic Field or other

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion:

Pitless Adapter Used

Water Level:

353 ft. below land surface on 2013-12-18

Measurement Method: Unknown

Packers:

No Data

Type of Pump:

Submersible

Well Tests:

Pump

Yield: 410 GPM with 96 ft, drawdown after 36 hours

Strata Depth (ft.) Water Type Water Quality: No Data No Data

> Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?:

No

Certification Data:

The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Hydro Resources Mid Continent Inc**

P.O. Box 639

Garden City, KS 67846

Driller Name:

Miguel Camarena

License Number:

54592

Apprentice Name:

Enrique Santos

Apprentice Number:

57578

Comments:

No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	37	Surface soil, brown clay w/sandy clay stks
37	74	Caliche w/sand stks
74	340	Sand w/few clay stks
340	360	Fine to med sand w/few clay stks
360	520	Fine sand
520	560	Very fine sand w/sandy clay mixed
560	580	Sandy clay w/very fine sand mixed
580	655	Very fine sand w/clay mix
655	663	Red clay

Casing: BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Туре	Setting From/To (ft.)
12 New	Steel cas	ing 0 -	480 .250"
12 New	Stainless	steel	screen 480 - 555 .030" slot
12 New	Stainless	steel	casing 555 - 575 .250"
12 New	Stainless	steel	screen 575 - 610 .030" slot
12 New	Stainless	steel	casing 610 - 625 .250"
12 New	Stainless	steel	screen 625 - 635 .020" slot
12 New	Stainless	steel	casing 635 - 645 .250"
12 New	Stainless	steel	screen 645 - 655 .020" slot
12 New	Stainless	steel	casing 655 - 658 .250"

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880



Phone: (512)356-6022 Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1639313

Chromium Dissolved

Cobalt Dissolved

Copper Dissolved

Lithium Dissolved

Manganese Dissolved

Molybdenum Dissolved

Selenium Dissolved Silver Dissolved

Thallium Dissolved

Uranium Dissolved

Zinc Dissolved

Vanadium Dissolved

Lead Dissolved

Lab ID: Sample ID: Q1639313017

0355203

Date Received: 9/22/2016 14:57

Matrix:

Aqueous

Date Collected: 9/21/2016 10:25

09/27/16 11:28

09/27/16 11:28

09/27/16 11:28

09/27/16 11:28

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SLW

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Sample Type: SAMPLE

Project ID:	TWDB CAN					, 0,=	Jai	пріє туре. Зимп		
Parameters		Results Units	LOQ	LOD	ML DF	Prepared	Ву	Analyzed	Ву	Qual
Parameters		Results Offits	LOQ	LOD	MIL DE	Frepareu	Бy	Allalyzeu	Бу	Quai
INORGANIC	s									
Analysis Des	c: E200.7 Metats, Tr	Prep	eration Metho	d: E200.7	Ртер	Belgin sava a nave	grade 4 3	e e sa Nakaja ar	4	
Elements		Anah	dical Method:	E200.7 M	etais, Trece	Elements			1	,
Boron Dissol	ved	163 ug/L	50.0	20.0	1	09/27/16 11:27	BS	09/28/16 20:20	FQ	
Calcium Diss	olved	41.6 mg/L	0.200	0.0700	1	09/27/16 11:27	BS	09/28/16 20:20	FO	
Strontium Dis	ssolved	1140 ug/L	10.0	4.00	1	09/27/16 11:27	BS	09/28/16 20:20	FO	
Iron Dissolve	d	<50.0 ug/L	50.0	20.0	1	09/27/16 11:27	BS	09/28/16 20:20	FO	
Magnesium [Dissolved	23.5 mg/L	0.200	0.0700	1	09/27/16 11:27	BS	09/28/16 20:20	FO	
Potassium Di	issolved	4.98 mg/L	0.200	0.0700	1	09/27/16 11:27	BS	09/28/16 20:20	FO	
Sodium Disso	olved	. 109 mg/L	0.500	0.200	1	09/27/16 11:27	BS	09/28/16 20:20	FO	
Analysis Des	c. E200.8, ICP-MS	ili saligi til sagese Pre p	aration Metho	d: E200.8	ICP-MS P	rep	. 4	tage and a second		
		Anab	dical Method:	E200.6 1	CP-MS					
Aluminum Dis	ssolved	<4.00 ug/L	4.00	1.50	1	09/27/16 11:28	BS	09/29/16 13:17	SLW	
Antimony Dis	solved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:17	SLW	
Arsenic Disso	olved	3.40 ug/L	2.00	0.700	1	09/27/16 11:28	BS	09/29/16 13:17	SLW	
Barium Disso	olved	19.2 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:17	SLW	
Beryllium Dis	solved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:17	SLW	
Cadmium Dis	ssolved	<1.00 µg/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:17	SLW	

0.400

0.400

0.400

0.700

0.400

0.400

0.400

1.50

0.400

0.400

0.400

0.400

1.50

1.00

1.00

1.00

2.00

1.00

1.00

1.00

4.00

1.00

1.00

1.00

1.00

4.00

3.11 ug/L

<1.00 ug/L

1.87 ug/L

60.4 ug/L

<1.00 ug/L

<1.00 ug/L

7.50 ug/L

<4.00 ug/L

<1.00 ug/L

<1.00 ug/L

9.55 ug/L

17.9 ug/L

<4.00 ug/L

Report ID: 226751 - 2818039 Page 51 of 87

Phone: (512)356-6022 Fax: (512)356-6021



ANALYTICAL RESULTS

Workorder: Q1639313

Lab ID: Q1639313017 Date Received: 9/22/2016 14:57

Matrix:

Aqueous

Sample ID: 0355203			Dat	e Collecte	d: 9/21/20	16 10:25	Sar	nple Type: SAM	IPLE	
Project ID: TWDB CAN	<u> </u>									
Parameters	Results Units	LOQ	LOD	ML DF	Prepare	d	Ву	Analyzed	Ву	Qual
Analysis Diesc: E300.0, Anlors		aration Method Nicel Method						Taring of some		
Chloride Dissolved	96.4 mg/L	5.00	2.00	5	09/26/1	6 18:01	ML	09/26/16 18:01	ML	
Bromide Dissolved	0.146 mg/L	0.100	0.0400	5	09/26/1	6 18:01	ML	09/26/16 18:01	ML	
Fluoride Dissolved	1.81 mg/L	0.0500	0.0200	5	09/26/1	6 18:01	ML	09/26/16 18:01	ML	
Sulfate Dissolved	103 mg/L	5.00	2.00	5	09/26/1	6 18:01	ML	09/26/16 18:01	ML	
TOTAL PHOSPHATE AS P										
Analysis Desc. E365.4 Phosphon	s, Prep	aration Metho	d: E365.4	/ E351.2 \	Matter Prep			gai ^t so a		
Total	Anah	dical Method	E365.4 P	hosphorus	, Total		7 : 1 :			
Phosphorus, Dissolved (As P)	<0.0200 mg/L	0.0200	0.00800	1	09/26/1	6 17:36	ММ	09/27/16	ML	
ALKALINITY										
Analysis Desc: SM2320B, Alkalini	N. Prepi	eration Matho	d: SM232	OB, Alkalir	lty		45 5 Gg	Augustania (A		£.,
	Analy	rtical Method	SM2320E	Alfallal						
Phenolphthalein Alkalinity	<20.0 mg/L	20.0	20.0	1	09/27/1	6	ADG	09/27/16	ADG	1
Hydroxide Alkalinity	<20.0 mg/L	20.0	20.0	1	09/27/1	6	ADG	09/27/16	ADG	1
Bicarbonate Alkalinity	214 mg/L	20.0	20.0	1	09/27/1	6	ADG	09/27/16	ADG	١
Carbonate Alkalinity	<20.0 mg/L	20.0	20.0	1	09/27/1	6	ADG	09/27/16	ADG	1
Total Alkalinity (CaCO3)	214 mg/L	20.0	20.0	1	09/27/1	6	ADG	09/27/16	ADG	
NITRATE AND NITRITE										
Analysis Dasc; SM4500-NOS-H.	Prop	aration Metho	x4: SM450	D-NO3-H,	Nitrate/Nitri	•	a Salata		5 1 15	
New Address of the Control of the Co	Anah	dicel Method	SN4500-	NO3-H, N	trate/Nitrite					
Nitrate/Nitrite Dissolved	2.22 mg/L	0.0400	0.0160	2	09/30/1	6	ML	09/30/16	ML	
SILICA										
Applyals Deer: SM6500-SiG2-C, :	Silica Prep	eration Metho	xd: SN450	9-SIQ2-C,	Silica	100			e Seg	
	Anet	dicel Method	SM4500-	9102-C, 8	lica			数数的数数		
Silica, Dissolved	36.7 mg/L	1.00	0.400	2	09/28/1	6	МО	09/28/16	МО	
HEAVY METALS										
Analysis Dago E246.1 Mercury V	later Prep	eration Math	d: E24 5.1	Mercury \	Nater			1 15.41		
	Anal	tical Method	E245.1 N	ercury W	ter					
Mercury Dissolved	<0.200 ug/L	0.200	0.0700	1	09/26/1	6	FM	09/26/16 12:25	FM	

Report ID: 226751 - 2818039

Page 52 of 87



LCRA Environmental Laboratory Services

3505 Montopolis Drive Austin, TX 78744

Phone: (512)356-6022

Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1639313

Lab ID: Sample ID:

Project ID:

Q1639313017

0355203

TWDB CAN

Date Received: 9/22/2016 14:57

Matrix:

Aqueous

Date Collected: 9/21/2016 10:25

Sample Type: SAMPLE

Parameters

Results Units

LOQ LOD ML DF

Prepared

Analyzed

Qual Ву

INORGANICS

Cation/Anion Balance

Analysis Dees SM1030B Cation/Anion

Belerice

Preparation Method: SM1030B Cation/Anion Balance Analytical Method: SM1030B Cation/Anion Balance

1.890 %

09/30/16 14:05

CW 09/30/16 14:05

CW

Report ID: 226751 - 2818039

Page 53 of 87



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: 16091825

Date Reported: 10/13/2016

CLIENT:

LCRA Environmental Laboratory Services

Collection Date: 9/21/2016 10:25:00 AM

Project:

Q1639314

Lab ID:

16091825-017

Matrix: NON-POTABLE WATER

Client Sample ID Q1639314017

Analyses	Result	RL Qu	al Units	DF	Date A	Analyzed
GROSS ALPHA / GROSS BETA R	ADIOACTIVITY (EPA	9310)	SW9310) E900	ı	Analyst: BRD
ALPHA, Gross	11.2	3.00	pCi/L	1	10/11	/2016 12:13:00 PM
RADIUM-226 (EPA 903.0)			E903.0	E903	-904	Analyst: BRD
Radium-226	ND	1.00	pCi/L	1	10/7/2	2016 7:53: 0 0 AM
Yield	1.00			1	10/7/2	2016 7:53:00 AM
RADIUM-228 (EPA 904.0)			E904.0	E903	-904	Analyst: BRD
Radium-228	ND	1.00	pCi/L	1	10/6/2	2016 12:54:00 PM
Yield	1.00		-	1	10/6/2	2016 12:54:00 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Manual Integration used to determine area response
- PL Permit Limit
- Reporting Detection Limit

- Holding times for preparation or analysis exc
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- Sample container temperature is out of limit as specified at testcode

Original

STATE OF TEXAS WELL REPORT for Tracking #353514

Owner:

City of Spearman

Owner Well #:

Well #12

Address:

30 SW Court

Spearman, TX 79081

Grid #:

03-55-2

Well Location:

Spearman, TX

Latitude:

36° 13' 06" N

Well County:

Hansford

Longitude:

101° 11' 36" W

Elevation:

No Data

GPS Brand Used:

No Data

Type of Work:

New Well

Proposed Use:

Public Supply; Plans Approved by

TCEQ

Drilling Date:

Started: 12/5/2013

Completed: 12/28/2013

Diameter of Hole:

Diameter: 22 in From Surface To 679 ft

Drilling Method:

Reverse Circulation

Borehole Completion:

Gravel Packed From: 365 ft to 679 ft

Gravel Pack Size: 12/20 16/3

Annular Seal Data:

1st Interval: From 0 ft to 360 ft with 528 cement (#sacks and material)

2nd Interval: From 360 ft to 365 ft with 13 bentonite (#sacks and

material)

3rd Interval: No Data

Method Used: Pressure cement through tremie pipe Cemented By: Hydro Resources/Perryton Redi Mix

Distance to Septic Field or other Concentrated Contamination: No Data

Distance to Property Line: No Data Method of Verification: No Data Approved by Variance: No Data

Surface Completion:

Pitless Adapter Used

Water Level:

Static level: 346 ft. below land surface on 12/22/2013

Artesian flow: No Data

Packers:

No Data

Plugging Info:

Casing or Cement/Bentonite left in well: No Data

Type Of Pump:

Submersible

Depth to pump bowl: (No Data) ft

Well Tests:

Pump

Yield: 525 GPM with 146 ft drawdown after 36 hours

Water Quality:

Type of Water: No Data
Depth of Strata: No Data
Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained undesirable

constituents: No

Certification Data:

The driller certified that the driller drilled this well (or the well was drilled

under the driller's direct supervision) and that each and all of the

statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for

completion and resubmittal.

Company Information:

Hydro Resources Mid Continent Inc

P.O. Box 639

Garden City, KS 67846

Driller License Number:

54592

Licensed Well Driller Signature:

Miguel Camarena

Registered Driller Apprentice Signature:

Enrique Santos

Apprentice Registration Number:

57578

Comments:

No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #353514) on your written request.

Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 (512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

CASING, BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description

0 - 35 Surface soil, brown clay w/sandy clay stks

35 - 60 Caliche w/sand stks

60 - 340 Sand w/few clay stks

340 - 360 Fine to med sand

360 - 380 Fine sand

380 - 400 Fine to med sand w/ some red clay mixed

400 - 620 Fine sand

620 - 640 Very fine sand w/clay mix

640 - 671 Fine sand

671 - 679 Red clay

Dia. New/Used Type Setting From/To

12 New Steel casing 0 - 520 .250"

12 New Stainless steel screen 520 - 620 .030" slot

12 New Stainless steel casing 620 - 630 .250"

12 New Stainless steel screen 630 - 670 .020" slot

12 New Stainless steel casing 670 - 673 .250"

150 vds Sout wind Sack

		150 yes Soot wind sain	
Sec58	Blk	<u>4-T</u>	47440
Survey T+		Honspord W?	17142
N. 3L. 2182	N. 101	14349° P.O. Box 784	
36.2180	<i>s 10</i>	Current Teyes 79888	ncman
ë			659-2524
	1140	Indicator. Well 12	
	2/1/12	Waterwell Cl	-
DATE/	2/6/13	No	
FROM	то	DESCRIPTION	5AND
0	35	Surpace top Soil bonn clay of saidy clay storps	
35	60	Caliche	
60	340	Sand of minor clay strips	-
340	360	Fine to med fine fairly loose sand	20
360	380	Gine Parchy book sand	20
380	400	fine to med to come fairly loss condul some red clay mex	20
400	420	fine Burly loose sand	20
420	440	Fine farely loose and	20
440	460	Bre Parcly Hose and	20
460	480	fine Party bose sand of clay mix	20
480	500	Goe farely loose sand	20
500	520	Pine Party loose sand	20
520	540	Gine Parchy Goose Sand	20
540	560	fine factor loss sout	20
560	580	Goe Party loose sand	20
224.2	600	Bue facely loose sand	20
580		Gne fourly loose sand	20
600	620		20
620	640	Very fine fairly loose sandy/red chy mix	20
640_	660	fine fairly loose sand w/red clay strip.	11
660	67.9	fine fairly losse sand w/red clay strip.	1/1

e. .

infairten et	
in other items.	

Cementing Certificate

Hydro Resources - Br. 4. Project Name (ity of Splar n Watery System Improvemen	an , TX As - Wells	#1(\$ 72	Drilling Permit	No.	6. Well No). Z
CASING CEMENTING DATA:	WELL	CASING		STAGE G PROCESS		-STAGE IG PROCESS
	Single String	Multiple Parallel Strings	Tool	Shoe	Tool	Shoe
7. Cementing Date	12/7/13					
8. •Drilled hole size	22					
•Est. % wash or hole enlargement	3%					
9. Size of casing (in O.D.)	123/4	the second secon				
10. Top liner (fL)	DY 112 12 40		NC 2000 N			
11. Setting depth (ft.)	360					
12. Hrs. Waiting on cement before drill-out						
13. Type of cement used: No. of sack >	528	214	N			
C 150 Class > Type II			11 10 10 10 10 10 10 10 10 10 10 10 10 1			- Catalogo
No. of sack > Class >			E4		b.	10014
Class >	N					0)
10 10 granus 1 10 10 10 10 10 10 10 10 10 10 10 10 1	y a Nor		S	an 3.		
14. Slurry pumped: Volume (cu. ft.) >	630	electronic di	şî M			
Height (ft.)	4 4 4			2		
Volume (cu. fl.) > Height >					84	2
Livigite			4)		2	
Volume (cu. ft.) ➤ Height (ft.) ➤	630			1 - W 7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		
Height (ft.) Height (ft.) Was cement circulated to ground surface (or bottom of cellar) outside casing?	Yes			i ov		- 1

CEMENTER'S CERTIFICATE: I declare that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sided of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Miguel Camarena Name and title of cementer's representative	Perry ton Relin	Nix Myc Signature	- Com
1201 E. 8th Pe	City	State	79070 Zip Code
806-435-6836 Phone Number	10	12/7//3 Date/	
OPERATOR'S CERTIFICATE: I dechare have knowledge of the well data and i presented on both sides of this form at This certification covers all well data.	nformation presented in this	report, and the data as	nd facts
Bruce J. Reichmuth Name of operator's representatives Lydro Resources	Super vi3 N	Bune /	leichmost!
λ -	Garden City	KS State	67846 Zip Code
620-277-2389 Phone Number	12/	7/14 Date	ilia - P



CUSTOMER West Tex, Utl. Spearmen ITX wo# 6639

QUARTER______ SECTION_____ TOWNSHIP____ RANGE ____ COUNTY_____

BIT: PILOT_____ 16" REAMER_____ 22" RIG _____ RIG _____ 22#110

1				•		المال	中口 丁.0.0 673	-
	DATE/CREW	1	FROM	epth	TIME R	ECORD FINISH	REMARKS	
A.M.12-	5-13 Migues	Enrique	1	sidoG		Omer manuscrate	Marcauph Lor. action	
	Ricardo		622		1,000	CONTRACTOR OF THE PARTY OF THE	Reach Spot erup. lia.p.	
					S. Barrell S. Committee		Mud Sta I Water DSd	Ach
:					- Curameron	3:30	Dere Del DS. I	TANKS •
	Bit-Kell) <u></u>		30.50	3:30		Start Dilling.	
	WD.	+2990	30.50	60,40	· · · · · · · · · · · · · · · · · · ·	7:40		
P.M.	12-5-13	Jost J.r.	Jony B	Marcos	Oclavio			
	#1 Co.	24,90	60.40	85,30	7:50	8.40	VIS 34 WT 8.2	
	7.60	24.91	85.30	110.21	8:50	9:40		
:	#1 D.P.	24.32	110,21	134,53	9:50	11:15	Put oil in compressor	
	2.	24,14	134.53	158.67	11:25	12120		
	3.	23.98	158.67	182.65	12:30	1:50	Drilling slow	•
	· 4,	23.89	182.65	206,54	2100	3:35	compressor stopped (wait on new	I COMPLESSOR
	5	24,48	206,54	231.02	3:45	4:35	VI3 33 W+ 8.3	,
	6	24.49	231.02	255.5/	41.45	5:40		
	<u> </u>	24.50		280.01	5750	6:55		
1.81 1.0	8	24.50	1 🐧	304.51	7:05	8:20		
14.W/ P	6-13 Sigi.	Isidoub.	Viceral	G. Mar	lon F			
	4				8:20	8:50	Run Niviation	
	٩,	24.49	, ,	329.00		9:40		
	10,			353,31	1	10:50	MS 32 W+ 8.4	:
		24.49		377.80	11:00	11.45		
}	19,		377. 80		11:55			
} }	13.			48.15		1:50		
-	14.			450.64		2:50		
	15:			475,14		4:00		
}	16.			499,63		5:05		
-	17.				5115	6:10	V1532 Wt 8.4	
-	18.	24.50	504.12	54862	6:20	7.'05		
-								åt.
<u>[</u>	<u>i</u> <u>j</u> _		<u> </u>					



DRILLERS LOG

CUSTOMER_WASH	Tex Al	Sprorman	72 Wo#_	6639	
QUARTERSEC	CTION	TOWNSHIP	RANGE	COUNTY	
BIT: PILOT	16"	REAMER	22"	_RIG	#-110

(2)

	DATE/CREW	JOINTS	De FROM	pth TO	JIME R	ECORD FINISH	REMARKS
Р.м.	12-6-13	JOST JI.		Marios			
	19	24.05		572.67	··· - ···	8140	
, ————————————————————————————————————	20	24.48	572.67	597,15	8:50	10:05	V15 33 wt 8.5
	2)	24.52	597.15	621.67	10:15	11:40	
	22	29.48	621.67	646.15	11:50	1120	
	23	24.50	696.15	670,65	1:30	2:50	V15 33 W+ 8.5
1	24	24.50	670.65	679.00	3;00	3:25	T.D. @ 679'
!		 , ,		-	3:25	3:40	Circulate wints I chen
					3:40		Pull airline + rundivintion
			· .			7:30	Tripiout Dipe
WW. 19-1	7-13 Sigis	-sideola. (icardo	G Mr	MAF		
	7				7:30	8:30	Setup + Run Log
[8:30	9:30	Schot Run 53/18
					9.30	1.30	Sexupt Kun Cosina
2					1:30		Set up + Run Grant
			679`	620			3 5,5Ks. 16/30
<u> </u>			1	5191			6 5,545,12126
				4261			6
-			426	3641	<u></u>	5:30	5,5
			364	3591	5:30	6:00	13 sks Beatonite
					6:00		Standby tor Comente
-							
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-							
- [<u>, </u>					
_							
<u> </u>							
_		<u> </u>		,			

Well #12

DRILLERS LOG

CUSTOMER W	est Texas o	1111. Spearman	WO#	6639	
QUARTER	_SECTION	TOWNSHIP	RANGE	COUNTY	
BIT: PILOT		REAMER		RIG Jed	110

DATE!	EIMIOL	DE FROM	PTH FD	TIME!	asing_	
		110081	***	ฮเหส	FINISH	REMARKS
- 12		1	1	43	27	3.27 55 PL, 40.00 SS SC20 Slot
			1 2	10	100	55. PL.
			*	53	27	
			3		100	55,56, 0.30 5/of
			٩	73	127	<i>y</i>
			<u></u>	40	00	SS SC .30 5/01
			-	113	27	
			5	47	72	.55 SC .30 Slot D.C 1.72
	1		,	154	99.	- 1.12
- 			6	412	05	BIK
				197		:
		{	7	42	13	
				239		
			8	412	u ·	
				281		
 -			9	421		
				323	40	
			10	42		
				365		
				42	11	
-				907	56	
			/2	42	06	
				449	62	
			13	4/2		
- -				491		
			141	42	24	
					72	100 S
			15	42		
				575		
<u> </u> -			16	42		
		<u> </u>	t-		12	750000000000000000000000000000000000000

17 42 11 660 03 18. 12 97 6.L. = 673 673.00



CUSTOMER West Tex, Utl. Spearmen ITX wo# 6639

QUARTER______ SECTION_____ TOWNSHIP____ RANGE ____ COUNTY_____

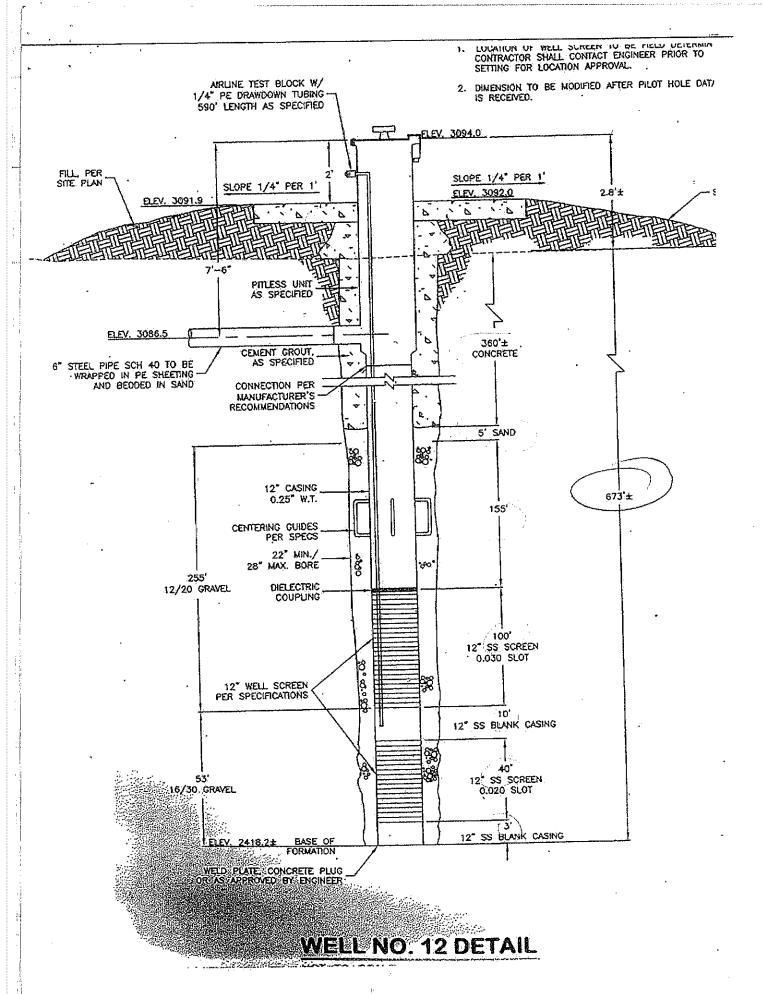
BIT: PILOT_____ 16" REAMER_____ 22" RIG _____ RIG _____ 22#110

1				•		المال	中口 丁.0.0 673	-
	DATE/CREW	1	FROM	epth	TIME R	ECORD FINISH	REMARKS	
A.M.12-	5-13 Migues	Enrique	1	sidoG		Omer manuscrate	Marcauph Lor. action	
	Ricardo		622		1,000	CONTRACTOR OF THE PARTY OF THE	Reach Spot erup. lia.p.	
					S. Barrell S. Committee		Mud Sta I Water DSd	Ach
:					E Caracteria	3:30	Dere Del DS. I	TANKS •
	Bit-Kell) <u></u>		30.50	3:30		Start Dilling.	
	WD.	+2990	30.50	60,40	· · · · · · · · · · · · · · · · · · ·	7:40		
P.M.	12-5-13	Jost J.r.	Jony B	Marcos	Oclavio			
	#1 Co.	24,90	60.40	85,30	7:50	8.40	VIS 34 WT 8.2	
	7.60	24.91	85.30	110.21	8:50	9:40		
:	#1 D.P.	24.32	110,21	134,53	9:50	11:15	Put oil in compressor	
	2.	24,14	134.53	158.67	11:25	12120		
	3.	23.98	158.67	182.65	12:30	1:50	Drilling slow	•
	· 4,	23.89	182.65	206,54	2100	3:35	compressor stopped (wait on new	I COMPLESSOR
	5	24,48	206,54	231.02	3:45	4:35	VI3 33 W+ 8.3	,
	6	24.49	231.02	255.5/	41.45	5:40		
	<u> </u>	24.50		280.01	5750	6:55		
1.81 1.0	8	24.50	1 🐧	304.51	7:05	8:20		
14.W/ P	6-13 Sigi.	Isidoub.	Viceral	G. Mar	lon F			
	4				8:20	8:50	Run Niviation	
	٩,	24.49	, ,	329.00		9:40		
	10,			353,31	1	10:50	MS 32 W+ 8.4	:
		24.49		377.80	11:00	11.45		
}	19,		377. 80		11:55			
} }	13.			48.15		1:50		
-	14.			450.64		2:50		
	15:			475,14		4:00		
}	16.			499,63		5:05		
-	17.				5115	6:10	V1532 Wt 8.4	
-	18.	24.50	504.12	54862	6:20	7.'05		
-								åt.
<u>[</u>	<u>i</u> <u>j</u> _		<u> </u>					

		Casing/Screen/	Gravel S	chedule		
		<u> </u>	1			
December 2, 2013					Spearman, TX	
					Pampa, TX	
WO#	6639 - \	West Texas Utilities				ļ
						<u> </u>
Well Depth -	673'			- Annual Control of the Control of t	Well #12	
Test Hole -	Hydro					
Drill 22" hole	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Depth		12 3/4" SS Screen	Slot Size	12 3/4" SS Casing (.250")	12 3/4" Casing (.250"w)	SS Plat
673	673					0
673				3		
670		40.	0.020"		-	
630				10		
620	520	100	0.030"			
Dielectric Coupling						1
520	.0,				520	
	Totals	140		13	520	0
					TOTAL	673
Install cente	erina qui	de at approx. every 4	0' in the scr	een area		
Depth	-					
620	673	16 - 30	3.10	Super Sacks	Actual volume	
365	620	1220	14.89	Super Sacks	Actual volume	
į.						
360	365	Bentonite Pellets	13.27	Sks or buckets	Actual volume	<u> </u>
7	360	Cemnet Slurry	23.36	Yds - Perryton Ready Mix	Actual volume	
		Keep Cement down	ı - Pitless U	nit will be installed later.		ļ
		Perryton Ready Mix	- Leslie - 80	∖ 06-435-6836		-

*** N ***	الماما لماما	
Well Re	CITY of Spearman Address: 30 Sw coort	y s
Customer Name:		
Farm:	Gity/State: Spearman TX.	i
Well#:	/2 Test Log # GPS Lat 36.21821 Long -101.19342	
Section: Survey: Well TD: Date Well Drilled: Casing Size & Wall: Screen Size & Wall: Gravel Mix/Amount:	5 8 Block: 4-T TOWN County: Hans Ford 12 - 7 - 13 12 - 7 - 13 12 3/4 .250 520' 6/4nh Perf: 12 3/4 .250 146' 55 5CL Sump: 3' 55 8/K - (2 1/4 .250" w 1020': 8 -030':3/s+ Special order	Very
Gravel Mix/Amount:		grand jora
i i	Antounts Used	•
GG/HV: Max Gel: Hydro Vis: Hydro Pac; Hydro Seal: Drispac Regular: Drispac Super Low: RD 110: Soda Ash: N Seal: Bentonife: Chips: PVC Pipe: HTH: Gafe Valve Size: Soap: 3" Pipe - Blank 2" Pipe - Blank Super Sacks: Super Sacks:	20-5k. Garden and 5 5k Garden Cety 2 5A Garden Cety 2 5A Garden Cety 360 365 37/2 51/100 Send 12/20-Daniels	Bentonte Plug Plug Dielectric Compling 100' SK.SS.
Misc Materials Used 330 99 13 22 Ac	Sk Hole Plag - 60 - Cenant ground - Peny ton Bedi Mix 16/30	10 55. Blank 30 50 5k 55 20 564

Juay Pueles 6 Hack 12" out 8 Surray Junatory



		Casing/Screen/	Gravel S	chedule		
		<u> </u>	1			
December 2, 2013					Spearman, TX	
					Pampa, TX	
WO#	6639 - \	West Texas Utilities				ļ
						<u> </u>
Well Depth -	673'			- Annual Control of the Control of t	Well #12	
Test Hole -	Hydro					
Drill 22" hole	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Depth		12 3/4" SS Screen	Slot Size	12 3/4" SS Casing (.250")	12 3/4" Casing (.250"w)	SS Plat
673	673					0
673				3		
670		40.	0.020"		-	
630				10		
620	520	100	0.030"			
Dielectric Coupling						1
520	.0,				520	
	Totals	140		13	520	0
					TOTAL	673
Install cente	erina qui	de at approx. every 4	0' in the scr	een area		
Depth	-					
620	673	16 - 30	3.10	Super Sacks	Actual volume	
365	620	1220	14.89	Super Sacks	Actual volume	
į.						
360	365	Bentonite Pellets	13.27	Sks or buckets	Actual volume	<u> </u>
7	360	Cemnet Slurry	23.36	Yds - Perryton Ready Mix	Actual volume	
		Keep Cement down	ı - Pitless U	nit will be installed later.		ļ
		Perryton Ready Mix	- Leslie - 80	∖ 06-435-6836		-

*** N ***	الماما لماما	
Well Re	CITY of Spearman Address: 30 Sw coort	y s
Customer Name:		
Farm:	Gity/State: Spearman TX.	i
Well#:	/2 Test Log # GPS Lat 36.21821 Long -101.19342	
Section: Survey: Well TD: Date Well Drilled: Casing Size & Wall: Screen Size & Wall: Gravel Mix/Amount:	5 8 Block: 4-T TOWN County: Hans Ford 12 - 7 - 13 12 - 7 - 13 12 3/4 .250 520' 6/4nh Perf: 12 3/4 .250 146' 55 5CL Sump: 3' 55 8/K - (2 1/4 .250" w 1020': 8 -030':3/s+ Special order	Very
Gravel Mix/Amount:		grand jora
i i	Antounts Used	•
GG/HV: Max Gel: Hydro Vis: Hydro Pac; Hydro Seal: Drispac Regular: Drispac Super Low: RD 110: Soda Ash: N Seal: Bentonife: Chips: PVC Pipe: HTH: Gafe Valve Size: Soap: 3" Pipe - Blank 2" Pipe - Blank Super Sacks: Super Sacks:	20-5k. Garden and 5 5k Garden Cety 2 5A Garden Cety 2 5A Garden Cety 360 365 37/2 51/100 Send 12/20-Daniels	Bentonte Plug Plug Dielectric Compling 100' SK.SS.
Misc Materials Used 330 99 13 22 Ac	Sk Hole Plag - 60 - Cenant ground - Peny ton Bedi Mix 16/30	10 55. Blank 30 50 5k 55 20 564

Juay Pueles 6 Hack 12" out 8 Surray Junatory



TCEQ	MICROBIAL MONITORING FORM	City Of Borger Water Plant		Single page Report		W. STA
Manager State	enter production is made the production of Samue Open Company and Tone (1986) with a Company of the Company of	200				金雪 沙河
Public Wate	Public Water System ID: 0 9 8 0 0 0 /		26			The state of the s
Public Water Systom Name:	(it) Of Show Twon & 12	P.O. Box 5250 Barger, TX 79008	1 89			Test rovelle mort of requipments of Tis onler stated otherwises. This
3	The Best and	NOBALI CHEST CAROLI	HO SKILLISE DR	EY-DO MOT MASK	TO THE RIGHT OF THE B	**************************************
Coursy:	the west of the	Sample Iced7	Received	Date / Time		
Name:	14,1MB KO 1005 (OS)			A Roceivad:	5-20-14	4:39 p.m.
Sults Address:	1 10 Box 965	lf no, temperature at Te	Tested By:	Date / Time		00 11
1 Re:	. Dellucit				2-10-14	4:58 p.m.
शब्द शब्द		<u>د</u>	Reported By:	Reported:	5-21-14	4:58 p.m.
Phone #:	1. 18	Report Approval	Par	emeda S	limanh.	QAC TELESTE
Sampler Nerne:	Mike Malouls					
Sampler Contact #:	ABG 670 5772 1 Ogesse House Cortleta	Approving	- -			5-22-14
Part in the Bystem Type	ar (*) 35a 100 - 40 a 100 a 200 a	Director: [15]	ano		Approva	
Public Private	Bottled/Vended < Groundwater	Chippinen (\$40°6)	是"你"。 第47章	Pide Lista	estulte Very freeze	さってきる。Lab Residtsできるからのできる。
Other	Coundwater with Surface	_			SECONDA SECONDA	
(Isa Specific Address) coston	Dafo Time					
WOT SITE#	ri ri		4.3	Total Coliform	E col	
Raw Wells Use Source ID for Well Sampled Ex. G1234567A	Moning Age of Season Mana Seas	5 2 2	rejection Chients	sant Absent	Present Absent	Prosent Absent Present Absent (1971) 18
C71 15 50	SAMITIME 812 5 2014 320 20 00 00 00 00			Ī		C14-342
				7		
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	24 A					
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			L			
TCEQ Form:Unnella	"Unmultigle Stepple Analysis . 1) Semple Tea aid. Analysis not labiated within 30 Acem of collection	3) Excessive Chlorin Resburt (> 10 mg/L)	ν.	5) Form incomplete	5) Form Incomplete / Date Discrepancy (Errors	& Christia
174	_	4) Heavy Staffurbiday Present	hev:			

	Terl result meet all reprintments ed Wil substituted of sender, Util critikale il Thi Utilititis die.		2:28 p.m.	2:48em				22			近き は 上方	, a 1 1 2 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		158-412				10 To					ers Clicked)	
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	46114	MATERIAL PROPERTY		Date / Time	Dete / Time Reported:	1		1	- California				am Absent	6									S) Form Incor	
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oratory Florida St. TX 78007 273-0865	5250	CARORATO	No. By:	M Tested By:	Reported	proval militi	1 4 8	4					Rejection Criteria										(Signal)	th Other:
Cky Of Borger Water Plant Laboratory 1800 S. Florida St Borger, TX 78007 (806) 273-0985	P.O. Box 5250 Borger, TX 79008	Change Cad?	Q	lf no, temperature bi	0.	Report Approval	Aportories					Thom.	Total	MA							2		3) Excessive Criteriae Readont (> 10 mg/L)	4) Heavy Stiffurbidity Present
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MICROBIAL MONITO	3	5 60		Bix	Z HZ	1	The	5332		֓֞֞֞֞֞֞֞֞֓֓֓֓֞֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֟֓֓֓֟֟֓֓֓֓֓֓	J'ry. Coll	age Dage	Year	A K									1) Scrool: Tee old. Analysis rot	2) Oscally insufficient for enalysis (100ms, required)
N V V V V V V V V V V V V V V V V V V V	24	Hans	25		1/4/3	5/100	نور	730 0		oco verce	Service Co.	-	2 7 7 rtnoM	4125									r	1.
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TCEQ Public 1	Public Water System Nacte:	County:	Name:	Address:	City:	W	Sampler Name:	Sampler Contact #:		Poblic	Sample k	Use Sper	Nells Usa S	X									-	1
	Public			A STREET, SQUARE, SQUA	a A bras	Phone #	Sample	Same	1.3	2 L		L	RawW	1									TCEO Form:	10525 672009

06/24/2001 2 : 26 8062749561

The state of the s		The said	Test creatis most all expois remains of The test is attach otherwise. This conflicts a Thirthitoks & 1.	Secretary of the control of the cont	S:Orpm.	217 pm.			Lab Director	1	5-33-11						事(14-365					n Chitch	
				ESTOHNOETHER	7500-14	p1-ec-5	6-22-14	10	E.	-	Pale of Agreement Agreemen				E. colf	Present Absent	口。由					la Discapancy (Est	
FE.			2	ONOT MARK TO TH	Received:	Date / Time		Reported:	Y			S. TabiResu		\$ Spans2231214	Total Colfform	Absent Pr	P					5) Form Incomplete / Date Discepancy (Estern	
Single page Report			1CEQ 1.00 D 48114	FORTY		2	X.	200							Total	Present						क ह	
City Of Borger Slas Water Plant	Laboratory 1800 S. Florida St.	orger, TX 79007 (806) 273-0985	P.O. Box 5250 Borger, TX 79008	- LABORATORY JIS	He By:	re at Tested By:	Reported	, Gg.	Report Approval	- Mosten State	Asin's	1		数ない。		NE.						ly Expensive Chibrine Resident (> 10 mg/L)	of Other,
City Of Water	Labo 1800 S. §	Borger, 7 (806) 2	P.O. B. Borger, T	Semple lead?	Ó	ff no, temporature at	receipt		Report	Annuales	Technical Disector:	Clibothe		III Age	Total		6.00					Chlorice Resident	Terbidity Pres
MICROBIAL MONITORING FORM	THE HEAVIST HAVE THE PROPERTY OF THE PROPERTY	Public Water System ID: 69 9 8 0 0 /	Lity Of Sparmen were #12	14.00.0	HIND RESURCES	8.5× 965	Bulles	TEXAS 24: 78 0 2 2 -	244 5712 Fax8: 452 244 455	M. Ke Tubande	9.20 5732	Bottled/Vended C Groundwater Surface Viater	Cone. Cone. (L.) Goddwydd Carlon Caellan (1988) (19		Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Special Specia	Passan wet 5 8 H 1.46 10 0 0 0					nata at collection	Consideration (a) the property of a Country insufficient for analysis (100m), required) (1) thesey Statesticidy Present
TCEQ	Public Private 4	Public Was	Public Water System Nente:	County:	Name:	Midense:	nd Re	State:	Shone II. The	Sampler Nume:	Sampler Contact #:	Public Private	24-24-Bamola Identifi	Use Specific A	NOT	Raw Wells Use Source	C. 74 0 Car					F	67500L

Texas Water Development Board Well Schedule

State Well No. 03 55 20 2 Previous Well No. HM- 1624 County Hansford 795
River Basin Canadian Ol Zone Region 4 Lat 36/2 40 Long. 10/1/58 cond /
Owner's Well No. #10 Location NW 1/4, NW 1.4, Section 67, Block 47, Survey Tino
Owner City of Spearman Driller W. D. Jones
AddressTenant/Oper
Date Drilled 03 03 (977 Depth Source of Depth Datum D Altitude 3085 Alt. Datum
Aquifer
· · · · · · · · · · · · · · · · · · ·
Well Const. Construction Method Res + Grant Material State Stat
Bowls Diamin. Setting 470 ft.Column Diamininin.
Motor Mfr. Power elec E Horsepower 1 4/6 366 496
Yield Flow GPM Pump 670 GPM Meas., Rept., Est. Date 190 3 C16 496 511
Performance Test Date 3-1477 Length of Test 2465 Production 850 GPM
Static Level 294ft. Pumping Level ft. Drawdown 76ft. Sp.Cap. GPM/ft.
ensity (Remarks In well hise
Water Use Primary PS Secondary Tertiary 8
Other Data Water Water Available Level Quality Logs Logs Data Data Data
Date VO3 14 7977 Meas. 294 •
Water Date / 09 / 3 / 990 Meas. 3/2 ·
Date Meas. 13
* NAWD SL = 312 9-13-90
DD= 98 GPN= 670
Recorded By D. Caker Date Record Collected or Updated OS 41 1991 (20 max) Reporting Agency
Remarks 1 Well # 10. Renonted vield 850 GPM
2 with 76 feet drawdown after Aungins
324 Mours in 1977, Reported years
6 1 9 9 0 1 Aquifer Well No. 3 . 5 5 . 202
900052 11/21/89

TEXAS DEPARTMENT OF WATER RESOURCES

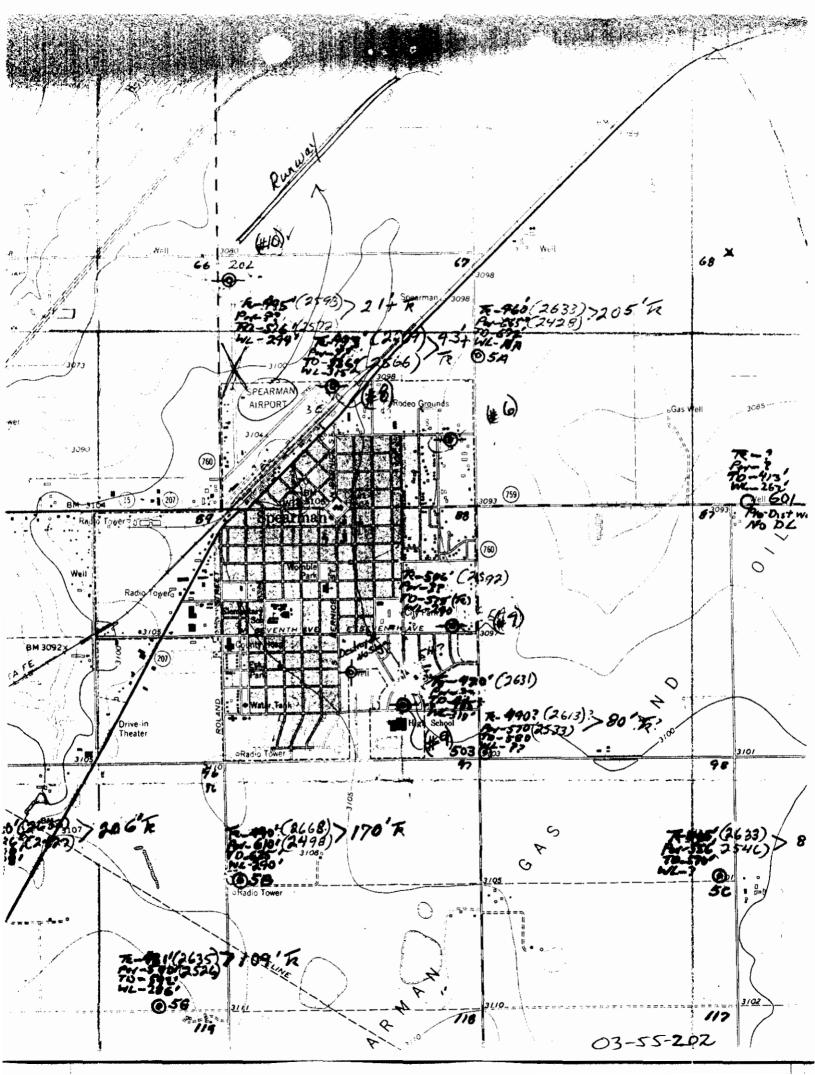
WELL SCHEDULE

	Aquifer(s) Ogallala Project No.14-90010	State We	11 No	0355_	<u>- 2C</u>
	Field No./Owner's Well No <u>HN-1624</u>	County_]	Hansford	l	
1.	Location: NW 4, NW 4, Section 67 Block 4T Survey T & NO	_, Lat		_, Long	
		_36-12	2-38	101-11-5	55
2.	Owner: City of SpearmanAddress: Box 37, S	pearm	an, Texa	<u>us</u>	
	Tenant (other):				
	Driller: W. D. Jones Drilling Co., Inc. Address: Box 817,	Dumas	Texas	79029	
3.	Land Surface Elevation: 3,088ft. above msl determined byTopo Map				
4.	Drilled: March 3 19 77; Dug, Cable Tool, Rotary, Air,				
5.	Depth: Rept. 509 ft. Meas. ft.			K PIPE & WEL	
6.	Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed	Diam.	Type	ft. to Setting	ft.
7.	Pump: MfrType	(in.)		from	to
	No. Stages 7 , sowis Diam. 12 in., Setting 470 ft.	16	blank	0	366
	Column Diam8in., Length Tallpipe3ft.	16	perf.	2 66	496
8.	Motor: Mfr. Fuel Electrical HP. 108				
	Yield: Flow gpm, Pump 850 gpm, Meas., Rept., Est. Date 77				ļ
	Performance Test: Date 3-3-77 Length of Test Made by driller				<u> </u>
	Static Level 294 ft. Pumping Level 370 ft. Drawdown 76 ft.	_			
	Production 850 gpm Specific Capacity gpm/ft.				
11.	Quality: (Remarks on taste, odor, color, etc.)				
	Analyses				<u> </u>
	DateLaboratoryTDSSp Cond			<u> </u>	
	DateLaboratoryTDSSp Cond		 		<u> </u>
2.	Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log,		·		<u>_</u>
	Formation Samples, Geophysical Log(s)				<u> </u>
	(type)			above .	
13.	Water Level(s): 294 ft. rept. March 1977 above below above	which		above below Land	
	ft. rept. 19 aboveft. meas19 ——below				
	Use: Dom., Stock, Public Supply, Ind., Irr., Observation, Other (Test Hole, Oil				
5.	Recorded by: W. D. Jones Drlg. Source of data: Driller's log	3	Date:_	March 15	51977_
16.	Remarks:				
	Aguifer Case Slev. 2593				. -
7.	Location or Sketch:				

W/L Obs. Well ____ W/Q Obs. Well _

State Well No. 03 - 55 - 20

246 yds. from North Section line. 120 yds. from West Section line.



Control of the Contro							
Send original copy by certified mail to the Taxes Water Development Board P. O. Box 13087		State of T	424 4	Hn-l	624	Located o	<u> </u>
Austin, Towns 78711		ATER WELL B	EPORT	144		Leceived:	77 ′
WRI.L \$10				[]			
1)OMERS: Person having well drilled <u>City</u>	of Spearman		Address_	Box 3	7 Spea	rman. Texa	15 79081 (State)
Landovaer(Heno	· · · · · · · · · · · · · · · · · · ·		Addrese_	(Street or	RFB)	(City)	(State)
2)LOCATION OF WELL: COUNTY Hansford		ni las			lirection from		·
Locate by shotch map showing London: biway number, etc.*	ks, roods, creeks,		(Halles Sall Cive le edjeces	gal locatio	m with distant	es and direction	Town)
NW% of Section,	North end of		1				
runway at Airpor		b	1	4-T		_ Survey TS	NO
(Use reverse side if necessar	ry)		(mrQffff	BCSBBCX(SA)	of Section	67	
3)TTPE OF WORK (Check): New Well Despening	4) PROPOSED USE Dumnetic	(Chock): Industria	l Maraic	ipal	5) TYPE OF WELL	l (Check); Driven	Dag
Reconditioning Flugging	Irrigation	Test Wel	l Other		Cable	Jetted	Bored
6)WELL LOG: Dispater of hele 24 in. D	epth drilled 506	ft. De	pth of compl	eted well_	509.10	_ft. Date drille	4 3-3-77
	ll mensurements made fr			.above grou	nd level.		
	tion and color of ation material) Casing: Type: Ol		New Steel	Plastic	Other
· 0 310 Surface			Comented	from		ft. to	ft.
310 317 Fine sand w	/clay strips		Diameter (inches)	77	Setting on (ft,)	To (ft.)	Gage
317 354 Coarse sand			16		O	509.10	
	/clay & sandy	ليملع					
strips -							
	<u>/thin_clay_st</u> _clay=muddy		Type12 Perforate		50 X 2 3,	/8" milled	slots pe
495 516 Red Clay			Dismeter		Setting		Slot
			(inches)	Fr	cm (ft.)	To (ft.)	
	<u> </u>		16		366	496	.050
2	- <u>.</u>						
(Use reverse side if n	eco <u>gg</u> et7)						
7) COMPLETION (Check):	. Ę	1	i) well tes				
Straight well Grayel packed Under resmed Open Hole	 7 ₹		W. D.		Drilling	-	
5) WATER LEVEL:	"	4 77		670		ft, drawdown	<i>1</i> 77 o
t = ar ** **	d surffice Date 3-1	<u>•-//</u>	Bailer t Arteniau	flor	the Attr	ft.drædown a	fterhrs.
Depth to pump bowls, cylinder, jet,		ft.		ure of water	 -"	Torb.	
below land surface.	= 40 NAND	م آ	2) WATER QUA	LITY: emical anal	lysia made?	Yes	B o
يم	= 40 NAND		Did sny	strata cost	ais undesirab	le water? Ye	<u>Ro</u>
W.) - / -		Type of	water?]	Fresh	depth of strate_	
I hereby ca each and al	rtify that this well we l of the statements her	as drilled rein are tr	by me (or us ue to the be	der my supe set of my kn	rvision) and to nowledge and be	that lief.	
MANE W. D. Jones Drilli (Type or Print)	ng Co.	Vate	r Well Drill	ers Regist:	ration Bo	251	
AMERICA BOX 817 (Street or LFD)	Dumas,	(City)	Texas			(State)	
(Signed) Jerry Thompson			_W. n	. Jones	. Drilli	, ,	
(Water Well Dri	ller)				(Company Na	ii)	
Please attach electric log, chemical a	nalysis, and other peri	ti ses t info	contion, if	eveilable.			
*Additional instructions on reverse si	4 4,						

FROM (FEET)

TO (FEET)

Ck +4633

4-15-77

Duplicate-File Copy

District File No. 6599

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

Method of Drilling: _

DESCRIPTON OF FORMATION MATERIAL

FOR USE OF COMMITTEEMEN Field Well No. #1-1624

Size of Well ___

DESCRIPTION OF FORMATION MATERIAL

03-55-202

2. Well located miles N, miles E, miles W of the town of 3. County
ANNUL NEW SELV SELV Section 67 Block 4/T Summer T 4/D
Survey Survey
246 N
120 W measured yards from E or W section line.

DRILLER'S LOG OF WELL

FROM (FEET)

TO (FEET)

ROTARY

ш.		Surface	ļ	 	
310_	317	Fine sand w/clay strips			
		File Salid W/Clay Strips			
317_	354	Coarse sand		*	
354	385	Fine sand w/clay & sandy			
		clav strips		<i>i</i>	
385	445	Fine sand w/thin clay stre	aks	in the state of th	
445	495	Fine sand & clay-Muddy			
495	516	Red clay		v.	
		,	ļ	:	
€ [*]		Jones Drilling CoAddress Box DESCRIPTIO w. used, or shop made. Diameter1	N OF WEI	LL	
7. Casi	ng perfe	orations: from 366 to to 436 f	t. Size	050 Number per foot	128
8. Pum	p Colu	nn: Size 8 in. Total length 470 ft.	Suction pip	e: Size 8 in. Length	ft.
9. Pum	p bowl	s: Size 12 LK Number of stages	7	Pump discharge pipe: Size	in.
10. Dept	th to wa	ter level294 ft. Pump discharge	850	GPM. Pumping level:	370 ft.
11. Pow	er Unit:	Electrical, Natural Gas. Butane, Other		Horsepower	108
Signatur	те	OWNER OR AGENT	TITI	E ADDRESS	
Fina	ıl Compl	etion of Well — Date			

Water
Qualit
Ŭ.
dae
ampling Ru

Aquifer(e):	County:	SWN:
Prolleda	Henstord	03-55-102

City of Spearman
well #10

Sample No. 607

Date: 9/12/91 13:45

By: D. R. Tallos

Preserve with:			
	1 liter Aniocus	Bottle 1)
Niere Nie Niere Nie Nie Nie Niere Niere Niere Niere Nie Nie Nie Nie Nie Nie Nie Nie Nie Ni	1 liter Cations/HM	Bottle 1)
(Nitrie)		Bottle 3)
H.SO. (Sulfurie)	500 ml Nitrate/ Phosphate	Bottle 4	Well H
unfiltered	1 Qt.(glass) (TOC) Organics	Bottle 5	14
NaOH (Sodium Hydroxida)	500 ml Cyanida	Bottle 6	
		Bottle 7	
All filtered unless otherwise stipulated All on ica.	Sub-Samples	Total	

Total Cations (+)	Carbonate (00452) Bicarbonate (00453	Phenol ALK (82244) Total ALK (00431)	pH (00400) Eh (00090)	Temperature (00010) 19.2 °C Specific Conductance (00084) 617	Water Level
	3 84	•	7.31 •	10) <u>19.2</u>	P.o.A usp
	Carbonate (00452)	192	• • • • • • • • • • • • • • • • • • •	617 µmhos/cm	TSD
			ය ය	9	

ಕ	ಕ	Î		
C Ph. 4.50 @ 27.40C at and) to so mi sumple.	Ph. 7.40 @ 26.60 C at start. 29.6 ms of 0.02M	Frucet andischarge.	wpather: Sunny and dindy.	P.O. A. C 1: 10 Notes & Calculations out at 2:10

Dissolved Solids (70301) 390

Total Hardness (46570)

Total Anions (-)

,)		HM-	DRJ.	1992. 607			
		HM =	Heavy Trace	and Alkaline-Earth Mete	ls	TWDB Use C	Inly
					Work N	. <u>320-</u>	31020
Send Reply To: Ground Water Uni Texas Water Devel P.O. Box 13231 Austin, Texas 7871	opment Boar	d	well	井 10			
Attention: _ Ŷ. A	landstr	'om		State Well Numb	or. <u>0 }</u>	-55- Z	.0 2
County: Ha	ns ford	 		Date & Time:	9/12/	91	13:45
Owner: City	of 5	erman		Send Copy	o Owner		
Address:				_ Sampled After Pu	mping:	P.O. A.	Hours
Date Drilled:			511 '	Yield: <i>85</i> 0	_GPM O	Measured	C Estimated
Collection Point:	meet on	9epH7	-21	Use: 7.5	Те	mperature:	19.2 0
By: D.A. J.	1725			Specific Conducts	nce:	617	
Requested Chem Laboratory No.:	ical Analys		Received: _	SEP 19 1991	_ Date R	A Military 1	T171991
Calcium	(00915)	m•/1	mg/l 47	Sodium	(00930)	me/l	mg/l _3.8
Magnesium	(00925)		27	Potassium	(00935)		4.0
		μ g/ î				µg∕li	
Aluminum	(01106)	<u><50</u>		/ Manganese	(01056)	< >0	
Arsenic	(01000)	_<10_		✓ Mercury	(71890)	<0,2	•
Barium	(01005)	39		✓ Molybdenum*	(01062)	< 30_	
Cadmium	(01025)	_<10_		✓ Selenium	(01145)		
Chromium	(01030)	< 20		✓ Silver	(01075)	<10	
Соррег	(01040)	<u> < 30</u>		✓ Strontium*	(01080)	1690	
Iron	(01046)	< 2-0		✓Venadium*	(01085)		

Do not analyze unless it is checked.
 Note: Crossout those elements not to be analyzed.

7	GWR- <u>V/SJ-</u> /	774. 607		
•	(A	nions)	TWDB	Use Only
Send Reply To: Ground Water Unit Texas Water Development Board P.O. Box 13231 Austin, Texas 78711	W7931	H 10	Work No3 21	1 - 31030
Attention: P. Nordstr	em	State Well Number:	03-55	-202
County:	rol sarman	Date & Time:	9/12/91	13:45
Owner: City of J	poarman	Send Copy To C	wner	
Address:		Sampled After Pump	ing: <u>P.D.</u>	A Hours
Date Drilled: 1977 I	Depth:	Yield: <u>8.50</u>	GPM O Measured	G Estimated
Collection Point: discharge	он <u>7-21</u>	Use: P.S.	Temperature	19.2 0
By: D.R. Jones		Specific Conductance	:6	17
Requested Chemical Analysis Laboratory No.:	Date Received:	SEP 19 199 1	Date Reported	OCT 04 1991
THD-Sample No. EB1 28		ed 0 9/19/91 I	ate Réported	10/02/91
Silica (00 955)	E9/L MG/L 43		MEQ/L	MG/L
		fate (00945 bride (00941		7 <u>.</u> 9.5
	Flu	oride (00950	0.29	1.76
D. 01-1: 11 12 12 12 12 12 12 12 12 12 12 12 12		<i>*</i>		
P.Akalinity(00415) T.Akalinity(00410)	0.00 0 3.98 199			
	•	E	Roron (***	**) 0.19

		1992. 607			
	(Nitro	gen Cycle)	TW	DB Use Only	
			Work No.	320-31830	
Send Reply To: Ground Water Unit		-+- 14			ŀ
Texas Water Development Board	Well	# 10	IAC No.		
P.O. Box 13231 Austin, Texas 78711					
Attention: P. Nordstram		_ State Well Number			
County: Hensford		_ Date & Time:	9/12/91	13:	15
Owner: City of Spean	ma n	_ Send Copy T	•		
Address:		_ Sampled After Pur	nping: P	0.A.	Hours
Date Drilled: 1977 Depth:	511	_ Yield: <u>850</u>	_GPM Q Meas	ured & Esti	mated
Collection Point: dis charappH	7.21	Use: <u>7. 5</u>	Tempere	ture: 17.	<u>z</u> •c
By: D.R. Jones		_ Specific Conductar	nce:	617	
Requested Chemical Analysis					
And the state of t		QED 104004		SOCTOS	1991
Laboratory No.:	Date Received: _	SEP 191901	_ Date Reported	OCT 08	
THD-Sample No. EB1 2844	Date Recei	ved 09/19/91	Date Reg	rted 10/03/	91
•		00623- 00608-		KN as N mg/ nmonia as N	
	^	00608-		umonia as n itrite as N	
`		00618-		itrate as N	-
00671- < 0.01 Orthoph	osphate as P	ng/L			

		RAD. DAJ.	1992 607	
		RAD = Rad	ioactivity Sample	TWDB Use Only
Send Reply To: Ground Water Unit Texas Water Development Boar P.O. Box 13231 Austin, Texas 78711	d	Well	71- 10	Work No. 320-31030
Attention: P. Nards	trom		_ State Well Number:	03-55-201
County: Hansfor	<u>d</u>		Date & Time:	9/12/91 13:45
Owner: City of	5pear	man	Send Copy To	Owner
Address:			Sampled After Pump	oing: P.O.A. Hours
Date Drilled: 1977	Depth: _	511	Yield: 850	GPM • Measured
Collection Point: dir charge	e pH	7.21	Use: <u>7.5.</u>	Temperature:
By: D.R. Jones			Specific Conductance	e: <u>617</u>
Requested Chemical Action Laboratory No.:		Date Received:	SEP 19 1997	Date Reported: DEC 021991
Alpha	(01503)	6.93	+ 7 A	
			-2.0	pCi/l
Beta	(03503)		÷ 2.4	pCi/l pCi/l
Beta -Radium 220	(03503) (09503)			•
	•			pCi/l
-Radium 220	(09503)			pCi/l pCi/l
-Radium 228	(09503) (81366)	7.3 :		pCi/l pCi/l pCi/l

^{*} Do not analyze unless it is checked yes.

TEXAS DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

	Aquifer(s)Ogallala	Project No.14-90010	State Wei	No	0355	5D
		Field No./Owner's Well No <u>HN-1617</u>	County_E	<u>lansford</u>		
1.	Location: NE 4, SW 4, Se	ction <u>67</u> _,81ock <u>4T</u> _,Survey <u>T</u>	_, Lat		_, Long	
			_36-12	<u>-19</u>	<u> 101–11–3</u>	2
						· -
2.	Owner: _City of Spearm	anAddress:_Box_37, S	pearma	ın, Texa	в 79081	
	Tenant (other):	Address:				
	Driller:_WDJones_Dr	illing co., Inc. Address: Box 817,	Dumas,	Texas_	79029_	
3.	Land Surface Elevation: 3,	102 ft. above msl determined by Topo Map				
4.	Drilled: May 3 19	_76_; Dug, Cable Tool, Rotary, Air,				
5.	Depth: Rept. 533 ft.	Measft.		ING, BLANK	PIPE & WEL	L SCREEN ft.
6.	Borehole Completion: Open Ho	le, Straight Wall, Underreamed, Gravel Packed	Diam.	Туре	Setting	(feet)
7.		Type	16	blank	from O	352
		Diam12_in., Setting480ft.			<u> </u>	
		_in., Length Tailpipe3ft.	16	perf.	352	522
		Fuel Electrical HP. 164			<u> </u>	
		p_800_gpm, MeasRept., EstDate_76_				
10.		76 Length of Test Made by driller _	-			
		mping Level_345 _ft. Drawdown30 _ft.				
		pm Specific Capacitygpm/ft.		<u></u>		<u> </u>
11.	Quality: (Remarks on taste, or	dor, color, etc.)				
	Analyses			-		
		atoryTDSSp Cond		<u></u>		
		atorySp Cond				
12.		Pumping Test, Power & Yield Test, Drillers Log,				
	Formation Samples, Geophysical	(type)	<u> </u>			
13.					above below Land	
	ft.	rept. above meas 19below	_which i	sft	· below Land	d Surface
		ly, Ind., Irr., Observation, Other (Test Hole, Oll				
15.	Recorded by: W. D. Jone	s <u>DrlgSource of data:Driller's lo</u>	g	Date:	May 3, 1	1976
16.	Remarks:					
	_ lquifer Base ell	v. 2596				
17.	Location or Sketch:					
	870 yds. from	South Section line.				

W/L Obs. Well ____ W/Q Obs. Well _ State Well No. ____ 03 - 55- 5D

TDWR-0308

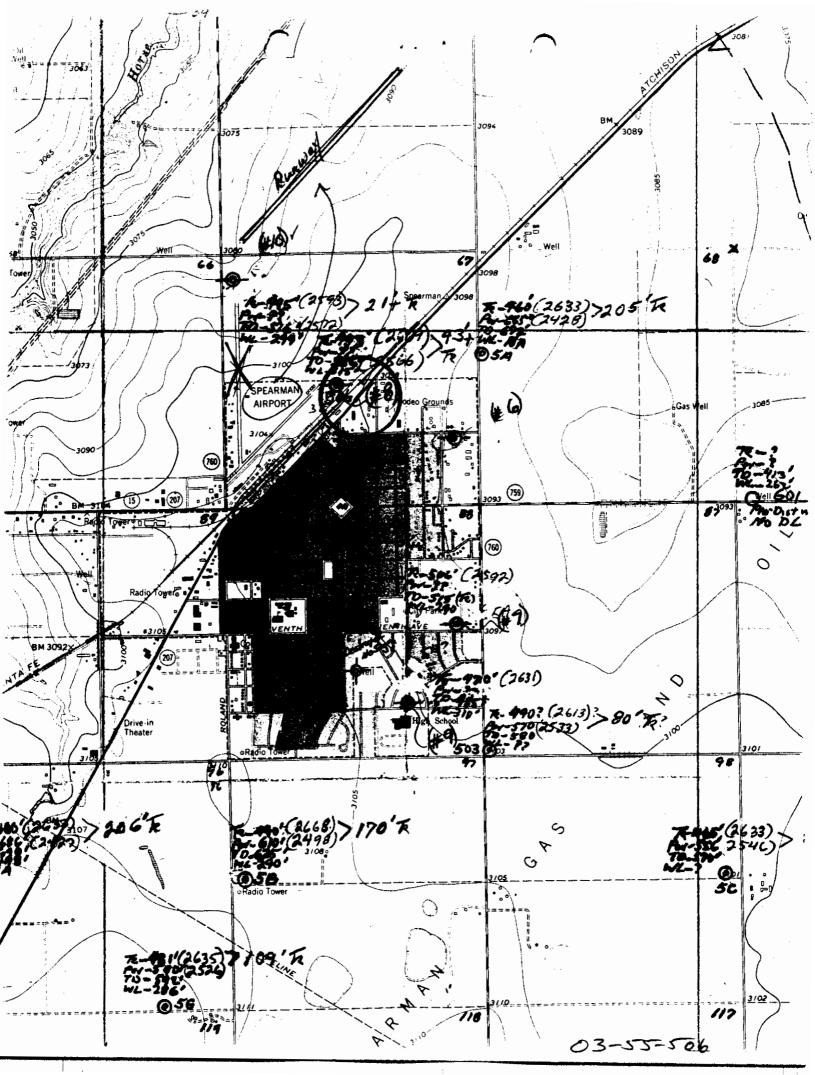
775 yds. from West Section line.

end original copy by sertified mail to the fexas Water Development Board , O, Box 12366	State of	Teras	n-1617 V	For TWDB Well No. Located of Received:	034 Only 03-55- 5
watin, Texas 78711	WATER WELL	ARPORT /	M - '		
1) OWNER: Person having well drilled City	of Spearman #8	Address BOX (Street	37 or EPD)	Spearma (City)	n, TX (State)
Landowner(Name	•	Address (Street	or NPD)	(City)	(State)
2)LOCATION OF WELL: County Hansford		in	direction from		
Locate by shetch map showing landman hiway number, etc. 3 (Use reverse side if necesse	Morth 4 ary)	Labor Block 4-T Abstract No.	tion with distance ms or survey lines D by Section	League T&	
3) TYPE OF WORK (Check): Hew Well Despending	4)PEOFOSED USE (Check): Domastic Industri	al municipal	5)TYPE OF WELL Botary	L (Chack): Driven	Dug
Reconditioning Plugging	o Irriention lest We	11 Other	Cable	Jetted	Bored
	Depth drilled 532 ft, f			ft. Date drille	4 <u>5-3-76</u>
(ft.) (ft.) for	mation material	Type: 01d	New Steel	_ Plastic	Other
0 290 Surface		Comented from		ft. to	f
	d & small gravel	Dimmeter (Inches)	Setting From (ft,)	To (ft.)	Gage
320 325 Sandy clay		16	0	533.40	.250
	V/Clay strips				
	small gravel	IA) ecsess-			
466 493 Fine sand a	e/sandy clay strips E sandy clay muddy	28050	x 2 3/8" 1	milled sl	ots per
	red clay strips	Perforated		Slotted	
506 516 Red clay		Diemeter (inches)	Setting From (ft.)	To (ft.)	Slot Size
516 528 Clay & shall	le w/trace sand	16	352	522	.050
528 536 Red clay					
(Use reverse side if : 7) COMPLETION (Check):	necessary	11) WELL TESTS:			
Straight wall <u>Graval packed</u>	Other		made? Yes les Dri lli n	No If yes	, by whom?
Under reased Open Ho	le .		gpm with 30	-	after 24 hr
8) WATER LEVEL: Static level_315_ft. below lan	nd surface Date 5-11-76	Bailer test_770	pe with	ft.drædom	16
Artesian pressurelbs. per se	-	Artesian flow		Tu-6	
Depth to pump bowls, cylinder, jet	· · - 1 F	Temperature of w	ster	7076	
below land surface. SL-3	13C, 10-17-90 370 NAMO	12) WATER QUALITY: Was a chemical a	nalysis made?	Tee	Bo
below land surface. SL-3 T.E. 6/6: PL2:	34'	Did any strate o	ontein undesirable	e water? Te	
FUD	- '	Type of water?	Fresh .	depth of strate	
I hereby c	ertify that this well was drilled				
HAME W. D. Jones Drill	Il of the statements herein are the Ling Co. Yes	rue to the best of my ar Well Drillers Regi	-	11ef. 1251	
(Type or Print) Box 817	Dum	28		Texas	
(Street or MFD)	(City)			(State)	
(Signed) Jerry Thompson		W. D. Jo	nes Drilli		
(Water Well Dr	·	formation, if evailable	(Compilery Hame	- ,	

TWDRE-CH-53

)

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Duplicate—File Copy

Carried State of the State of t

District	Tilet a	375	7 4
UISTRICT	rne	NO.	and the second

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

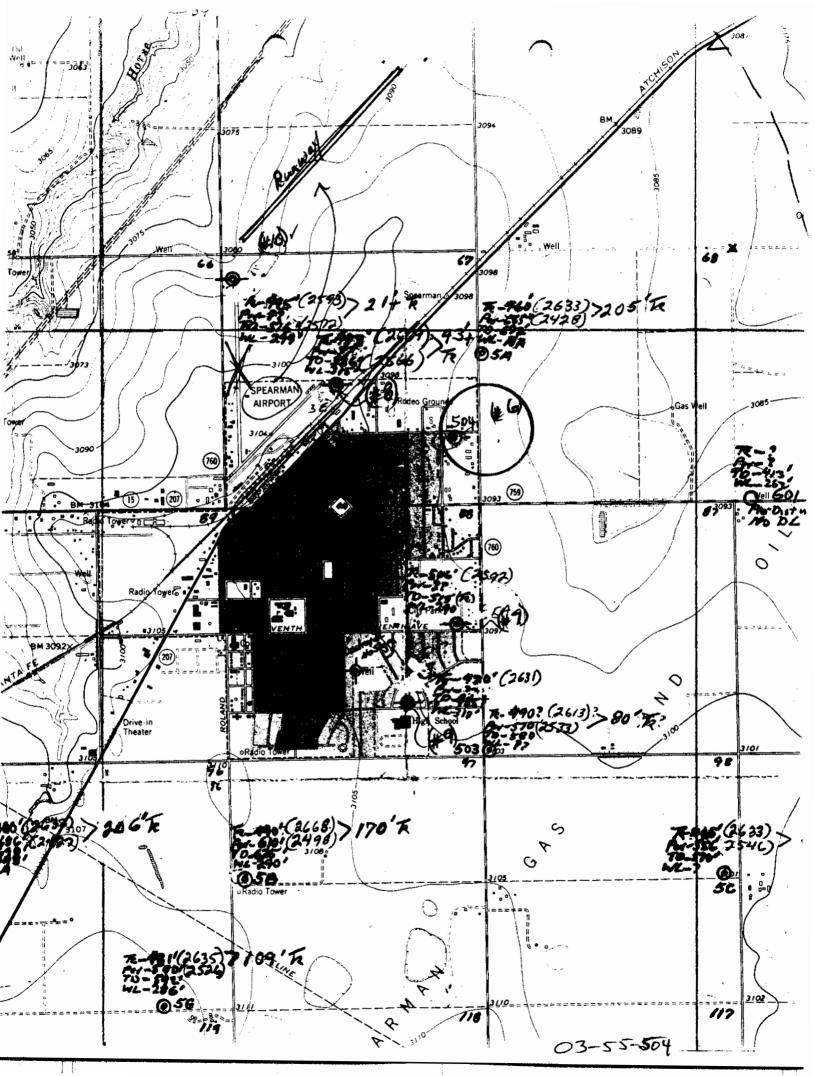
FOR USE OF COMMITTEEMEN
Field Well No
Date Received Many 21, 1876
Size of 8 Maximum 200 GPM

		City of Spearman			Miles W of the town of Spearman, Tex
		sford I			
	-	4 SW1/4 SEV/4 Section 67	_		
	(GIRCLE	E ONE)			
5. ACTI	JAL LOC	ATION OF THIS WELL IS $\begin{cases} -\frac{870}{775} \end{cases}$	m	easured y	ards from ÉXXX W section line.
		DRILLER'S I	.OG OF	WELL	<u>.</u>
FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
	294	Surface	528	536	Red clay
249	3.29	Coarse sand a small gravel			
3:10	533	Sandy clay & clay			
3.25	315	Fine sand W/clay strips			
345	386	Med sand & small gravel			
385	456	Fine sand e/sandy clay str	95		
100	493	Fine sand % sandy clay mud	.d./		
411	9B3	Fine sand & red clay strip	.f		
500	11.5	Red clay			
SEC	325	Clay 2 state w/trace sand			
ierein a	re true t F	to the best of my knowledge and belief.	817.)umas,	ision), and that each and all of the statement $rac{T \times }{}$ Date Drilled $rac{19}{}$
6. Casi	ng: <u>ne</u> y	w. used, or shop made. Diameter	ij		in.\ Total length 533.40
7. Casi	ng perfo	orations: from 352 ft to	ft. Size	- 1.050	in. Total length 533.43 f
8. Pum	ıp Colun	nn: Size $rac{8}{}$ in. Total length $rac{430}{}$ f	t. Suctio	on pipe:	Size 8 in. Length 3 f
					mp discharge pipe: Size 8 i
.0. Dept	th to wa	ter level 315 ft. Pump discharg	e8	0(GPM. Rumping level: 365'
1. Pow	er Unit:	Electrical, Natural Gas, Butane, Other_		<u>. </u>	Horsepower
14 mars = 4 - 1	_				·
ugnatur	:e	OWNER OR AGENT		TITLE	ADDRESS
Fina	l Comple	etion of Well — Date		, 19	

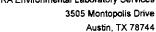
Texas Water, Development Board Well Schedule

State Well No. 03 55504 Previous Well No. 44-346 County Hansford 195
River Basin Gaadian 0/ Zone / Region Of Lat. 36/208 Long. 10/ 1/ 9/ Cont /
Owner's Well No. #6 Location 1/4, 5£ 1.4, Section 67, Block 47, Survey T.NO
Owner City of Spearman POSI Tenant Poer. Jim Mc Williams Source of Source o
Date Drilled // 05 /962 Depth 527 Depth Datum D Altitude 3094 Alt. Datum
Aquifer Well W User 8/7800
Well Const. Construction Method Rotory Material Stee S
Completion Perf. Screen Steel S Casing or Blank Pipe (C) Well Screen or Slotted Zone (S) Open Hole (O) Completed from to Diam. Setting (feet)
Bowls Diamin. Settingft.Column Diamininin.
Fuel or Power eec E Horsepower 1 C/6 0 275 476
Yield Flow GPM Pump 320 GPM Meas Rep. Est Date '88 3 C / 6 47 6 527
Performance Test Date Length of Test Production GPM 4
Static Level 264 ft. Pumping Level 317 ft. Drawdown 53 ft. Sp.Cap. GPM/ft.
Quality (Remarks Faucet or Discharge
Water Use Primary PS P Secondary Tertiary 8
Other Data Water Water Available Level Quality Logs D Data Data Data
Date VIV US 1962 Meas. 264. 7-07 10
Water Date Date 17970 Meas. 340 • 7-06 11
Date Meas. • 13
Standby # 1920-NPUD = 340'SL 11
Standby # 1970- NADO - 395 'PL
Percented By D. Coker Date Record Collected OS 2/ /99/
Remarks 1 Me 1 / # 6 , Reported y (e (0 700 9)) . Reported y (e
5 / Aquifer
6 Well No. 03-55-56

TRU(TTONS istration	ISTRATION A: Fill out in quadruplicate (Picase type or print.)	o. Submit all copies	to County	Committeem		8 in Yield	1000 GPA
. 10. 4.	<i>7</i>	City of Speet					As a Mile	d warmen
	1.	d miles N,				* *	town of	A No Constanting
Cou	nty	Bansford	The second of th	League	The state of the s	1	- J-	The second second
133	(C)	LIGHT SEL Section	on 67	Block	Lop	Survey	TAYS	
AOT	DAL 10	CATION OF THIS WELL	DRILLER'S	me	asured yards	We also the	section	V6.4
ROM	ТЭ	Method of Drilling	Rotary	FROM	то L			
EET)	(PEET)	DESCRIPTON OF FORM	MATION MATERIAL	(FEET)	(FEET)	DESCRIPTION	N OF FORMATION	I MATERIAL
	2	soil	<u> </u>					
}	12 42	calcine red sandy clay						
2	170	calcine, soft sand fine sand & calich				e gatasia. Maratayat iyo		
78 90	250	course white sand,						
10	718	fine streeks soft	sendy clay &	a lebe	Ŧ			
18	363	searce cand, fairl	, stracks sol	Lelay				
1	498	mostly soft sandy	treaks sait a			** · · · ·		NA T
8	525	seme, red clay str						20 Kata
5		lots red clay, str	taks coarse st	ind				
			· · · · · · · · · · · · · · · · · · ·					
			,	.				
er. De essa	744 1947 - 1949		,				, s	
		ertify that this well was to the best of my knowle		r under my	supervisio	n), and that	eacn and an or	the stateme
ller	W. D.	Jones Drilling Co	- Inderess Des	ns, 1622	.	Date D	rilled 🔷	125 195
			DESCRIPT	ION OF	WELL			
				i de la			l length	7.48
*		ew, used, or shop made	1		ā.,			A WAY
Cas	ing per	forations: from 275	ft to	_ ft. Size		, Numbe	r per foot	110000000000000000000000000000000000000
Pun		ımn: Size <u>i</u> n. T					. Cength	A SPINAL
Pun	np bow	ls: Size	Number of stages		Pump	discharge p	ipe: Sile	70 10 10 10 10 10 10 10 10 10 10 10 10 10
Dep	th to w	rater level	ft. Pump discha	rge 9 0	0 G	PM. Pampi	ng levek	317
Δ.		t: Electrical, Natural G		* .		, Horsepo	75 km	ď



WQ FY 2	016 03	-55-50	4	<u>T\</u>	NDB Wa	ter Quali	ty Field	Data Sh	<u>eet</u>		Newly Inventori	ed Well
SWN:	#36A555	result		Name:	City	of Spec	Ac Man				!D Number:	846
County:	Hanston		-	Address:		Box 37	Ge > (M = (-		_	9-21-16
County Code:	las	-				May TX	74081		-		Sampler(s):	
Aquifer Code:	121 0	GLL	-		<u> </u>	11.54	1 100 -		=			
Aquifer ld:	21		-	Attention:	Chris	Douclas			-			
		•••	W	ell Name or #:	4	6			-		Calibration Ve	rification Readings
1	2	3	4	5	6	7	8	9	10	11	pН	SLOPE = 101,9
250 ml filtered	500 ml filtered	250 ml filtered	1 Liter filtered	1 Liter filtered	1 Liter filtered	40 ml unfiltered						7= 7.63
Cation	Anions/T. Alk.	Nitrate	Gross	Radium	Radium	Atrazine						4 or 10 =
			Alpha	226	228					İ	Conductivity	500 = 486
HNO ₃	ICE	ICE + H2SO4	HNO3 by lab	HNO ₃ by lab	HNO ₃ by lab	ICE	<u> </u>				_	1000 = \001
												2000 = 1941
	(1:30					16.						5000 = 1770
Time In:	4.30				Time Out:	10:10						
											Field A	kalinity Titration
Water Level:			M.P. =		W.L. remark:						7.42	
Pumping time:	43 C) 🕸	١		Ss	ampling Point:	FAI~						Start pH
·	Δ.	•		0.0	ampining i onit.		•				448 1	End pH
					FIELD G.P	.S. readings	// 5				50 r	nL Sample Size
Lift:	705				Latitude:	36 12	8.3				,	nL Acid Phenol (> 8.3)
Power:		•			Longitude:		1,6	-				•
i ower.					Longitude.	10 11	.,,	-			ml. acid added x 20 =	nL Acid Total (to pH 4.5) Alkalinity
Casing Type:					Casing Size:							<u> </u>
	(1:0)					,	•			Phenol	Alkalinity (82244):	mg/L
Sample Time:	4.7			F	ilter pressure:	hand pump /(li	ina/spring sa	ampler				0:10
						`					Alkalinity (39086):	218 mg/L
Г		Stabilization	_	able (At least 3	readings @ 5	min. intervals)				Notes	:	
Time	4:40	9:45	4:50									•
pH	6.88	7.21	7.33									
Celsius Temp.	14.5	17.0	18									
Conductivity	589	\$580	571									



Phone: (512)356-6022 Fax: (512)356-6021



ANALYTICAL RESULTS

Workorder: Q1639313

Lab ID:

Project ID:

Q1639313016

0355504

Sample ID:

TWDB CAN

Date Received: 9/22/2016 14:57

Matrix:

Aqueous

Date Collected: 9/21/2016 09:50 Sample Type: SAMPLE

Parameters	Results Units	LOQ	LOD	ML	DF	Prepared	Ву	Analyzed	Ву	Quai
INORGANICS										
Analysis Desc. E200.7 Metals, Tr	ace Prep	ration Metho	d: E200.7	Prep						
Elements	Anan	tical Method	E200.7 N	Aetals,	Trace	Elements				
Boron Dissolved	84.2 ug/L	50.0	20.0		1	09/27/16 11:27	BS	09/28/16 20:13	FO	
Calcium Dissolved	43.8 mg/L	0.200	0.0700)	1	09/27/16 11:27	BS	09/28/16 20:13	FO	

Strontium Dissolved	1060 ug/L	10.0	4.00	1	09/27/16 11:27	BS	09/28/16 20:13	FO
Iron Dissolved	<50.0 ug/L	50.0	20.0	1	09/27/16 11:27	BS	09/28/16 20:13	FO
Magnesium Dissolved	24.3 mg/L	0.200	0.0700	1	09/27/16 11:27	BS	09/28/16 20:13	FO
Potassium Dissolved	4.30 mg/L	0.200	0.0700	1	09/27/16 11:27	BS	09/28/16 20:13	FO
Sodium Dissolved	29.6 mg/L	0.500	0.200	1	09/27/16 11:27	BS	09/28/16 20:13	FO
Analysis Desc: E200.8, ICP-MS	Prepa	ration Metho	d: E20 0.8, ICI	P-MS Pro	ab .			

Analysis Desc: E200.8, ICP-MS.	Preparation Method:	E200.8, ICP-MS Prep

<4.00 ug/L

	Analyt	ical Method; f	E200.8, ICP-	MS			er er er er er er er er		
Aluminum Dissolved	<4.00 ug/L	4.00	1.50	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Antimony Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Arsenic Dissolved	3.59 ug/L	2.00	0.700	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Barium Dissolved	52.3 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Beryllium Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Cadmium Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Chromium Dissolved	2.33 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Cobalt Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Copper Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Lithium Dissolved	65.7 ug/L	2.00	0.700	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	N
Lead Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Manganese Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Molybdenum Dissolved	5.47 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Selenium Dissolved	<4.00 ug/L	4.00	1.50	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Silver Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Thallium Dissolved	<1.00 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	
Uranium Dissolved	8.44 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	N
Vanadium Dissolved	19.6 ug/L	1.00	0.400	1	09/27/16 11:28	BS	09/29/16 13:15	SLW	

Report ID: 226751 - 2818039

Zinc Dissolved

Page 48 of 87

SLW

1.50

09/27/16 11:28

BS 09/29/16 13:15

4.00



3505 Montopolis Drive Austin, TX 78744

Phone: (512)356-6022 Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1639313

Report ID: 226751 - 2818039

Lab ID: Sample ID: Q1639313016

0355504

Date Received: 9/22/2016 14:57

Matrix:

Aqueous

Date Collected: 9/21/2016 09:50

Sample Type: SAMPLE

Parameters	Results Units	LOQ	LOD	ML	DF	Prepared	Ву	Analyzed	Ву	Qual
Analysis Desc E300.0, Anions	Prep	aration Metho	d: E300 .0	. Anions		Zastanakan				
	Anah	tical Method:	E300.0, A	nions			ţ.,	<u>к</u> •		
Chloride Dissolved	21.8 mg/L	1.00	0.400		1	09/26/16 17:44	ML	09/26/16 17:44	ML	
Bromide Dissolved	0.126 mg/L	0.0200	0.00800		1	09/26/16 17:44	ML	09/26/16 17:44	ML	
Fluoride Dissolved	1.65 mg/L	0.0100	0.00400		1	09/26/16 17:44	ML	09/26/16 17:44	ML	
Sulfate Dissolved	46.6 mg/L	1.00	0.400		1	09/26/16 17:44	ML	09/26/16 17:44	ML	
TOTAL PHOSPHATE AS P										
Analysis Desc: E365.4 Phosphore	s, Prep	eration Metho	d: E365.4	/ E351	2 W	iter Prep		40.44.44.64		
Total	Aneh	tical Method	E365.4 P	hospho	rus,	Total				٠
Phosphorus, Dissolved (As P)	<0.0200 mg/L	0.0200	0.00800		1	09/26/16 17:36	ММ	09/27/16	ML	
ALKALINITY										
Analysis Oper: SM23208; Alkalink	Yan yang Prop	eration Metho	xd: SM232	08, Allu	والملاء	Maria Tari				
	Anal	ricel Nethod	SM2320E), Alkali	nity		1,1 11			
Phenolphthalein Alkalinity	<20.0 mg/L	20.0	20.0		1	09/27/16	ADG	09/27/16	ADG	i 1
Hydroxide Alkalinity	<20.0 mg/L	20.0	20.0		1	09/27/16	ADG	09/27/16	ADG	
Bicarbonate Alkalinity	203 mg/L	20.0	20.0		1	09/27/16	ADG	09/27/16	ADG	
Carbonate Alkalinity	<20.0 mg/L	20.0	20.0		1	09/27/16	ADG	09/27/16	ADG	
Total Alkalinity (CaCO3)	203 mg/L	20.0	20.0		1	09/27/16	ADG	09/27/16	ADG	i
NITRATE AND NITRITE										
Analysis Dasc; SM4500-NG3-H,	Prep	aration Metho	d: SM450	0-NO3-	H, N	trate/Nitrite	A. A.			
Windle/All/de	Anal	rtical Method	: SM4500-	NO3-H	Nitr	ate/Nitrite				
Nitrate/Nitrite Dissolved	2.07 mg/L	0.0400	0.0160		2	09/30/16	ML	09/30/16	ML	
SILICA										
Analysis Deer: SM4500-SiO2-C. S	Mica Prep	aration Matho	od: SM450	0-SIO2	c s	lAca	11 11			
	Anal	rtical Method	: SM4500-	SiO2-C	, Silk	;3				
Silica, Dissolved	39.8 mg/L	2.50	1.00		5	09/28/16	МО	09/28/16	МО	
HEAVY METALS										
Analysis Desc; E245.1 Mercury W	ater Prep	aration Meth	od: E245 .1	Mercu	у W	t ie r				
	Anal	ytical Method	: E245.1 N	lercury	Wate	T ,		1		
Mercury Dissolved	<0.200 ug/L	0.200	0.0700		1	09/26/16	FM	09/26/16 12:23	FM	

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Page 49 of 87



LCRA Environmental Laboratory Services

3505 Montopolis Drive Austin, TX 78744

Phone: (512)356-6022 Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1639313

Lab ID: Sample ID:

Project ID:

Q1639313016

0355504

TWDB CAN

Date Received: 9/22/2016 14:57

Matrix:

Aqueous

Date Collected: 9/21/2016 09:50

Sample Type: SAMPLE

Parameters

Results Units

LOQ LOD

ML DF Prepared

Analyzed Ву

Qual Ву

INORGANICS

Analysis Desc: SM10308 Cation/Anion

Balance*

1 360 % Cation/Anion Balance

Analytical Method: SM1030B Cation/Anion Balance

Preparation Method: SM1030B Cation/Anion Balance

09/30/16 14:05

CW 09/30/16 14:05

CW

Report ID: 226751 - 2818039

Page 50 of 87



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u> **Analytical Report**

(consolidated)

WO#: 16091825

Date Reported: 10/13/2016

CLIENT:

LCRA Environmental Laboratory Services

Collection Date: 9/21/2016 9:50:00 AM

Project:

Q1639314

Lab ID:

16091825-016

Client Sample ID Q1639314016

Matrix: NON-POTABLE WATER

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
GROSS ALPHA / GROSS BETA R	RADIOACTIVITY (EPA	A 9310)	SW9310	E900	Analyst	: BRD
ALPHA, Gross	20.4	3.00	pCi/L	1	10/11/2016 7:55	:00 AM
RADIUM-226 (EPA 903.0)			E903.0	E903-	904 Analyst	BRD
Radium-226	ND	1.00	pCi/L	1	10/7/2016 7:53:0	00 AM
Yield	1.00			1	10/7/2016 7:53:0	00 AM
RADIUM-228 (EPA 904.0)			E904.0	E903-	904 Analyst	: BRD
Radium-228	ND	1.00	pCi/L	1	10/6/2016 12:11	:00 PM
Yield	1.00			1	10/6/2016 12:11	:00 PM

03, 55, 504

Qualifiers:

Value exceeds Maximum Contaminant Level.

Manual Integration used to determine area response

PL Pennit Limit

RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

Original

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY 07-55-50		9-185-July 1. , Revised DEP	
0)	WITED DECOMPOSE POLICE	UNITED STATES ARTMENT OF THE INTERIOR 55-5	
	1	- 31	

	LLD lengue / // YS/	COMM
N. Well	Location /N S	
Date 10-30 , 19.56 Field No. BE#1	Measuring Point	
no Cafe mor Shaarma	Height of Meas. Point above land-surface	e dates
Source of data Leo Dacus, vity me.	Bt. B. P. Depth to	12
1. Location: State Texas County Hansford	P	_
	10-20-56 259.66	
	1-21-57 258.64	
2. Owner: Address	1-14-58	
Tenant Address		
4. Elevation ft. above		
drilled, driven, bored, jetted.		
i. Depih: Ropt. ft. Meas. 337 ft.		
7. Casing: Diam. Ann. to		
uijei		
250 06 70-30		•
ft rept. 1970 1970		
None which is		
Power: Kind Bowley Horsepower		
G. M., Pump		
12. Use: Dom., Stock, PS., RR., Ind., Irr., Obs.)		
13. Quality Temp Pr		
Taste, odor, color Sample Yea		
Unfit for		
14. Remarks: (Log. Analyses, etc.)		

DEPARTES OF THE INTERIOR

Vator Resources Brench	GEOLOGICAL SURVEY	DESCRIPTION OF AND ANAMERON
Branch		Contract of the Contract of th
North well	ついいい	ング・シー
1		S

Vator Lev Owner Au Tenant Location	ol Bosoure, handle co T.D. 331	eponta Saute Fe	sour fe Railmay		Field No. S.R. # Office Res. M. S. County Hawsford Type of wall Markhard
Measuring Height of	F 7	at above	land-surface	م	
	Depth to water below mess.peist	Bt. B. P. L. S. D.	Depth to water below L.S.D.	by a	Remarks (pumping, M.P. changed, etc.)
10-20-56			258.66		
1-21-57			2.58.64)
1-14-58			260.70		1-2.08
					-5-
				,	
					\mathcal{B}

V

9-185—July 1>---Revised

UNITED STATES

MATEN NEOCONCES BRANCH	With anomore and	GEOLOGICAL SURVEY	DEPARTMENT OF THE INTERIOR
Ω	0	ار الم	S
מ נפון	•	×3-563.	`

10.	ဗ	òo		င္း မွာ	*	ب		၁	-	WELL Date - Record Source
10. Pump: Type None	3 ft. meas.	quifer .	13 in., to	Type: Dug drilled, driven, bored, jetted ft. Meas. 278.	Elevation ft. above	Driller Topography	Tenant	Д мес.	Location: State Texas.	WELL SCHEDULE Date 10-30 Record by JD Bource of data field
Capacity	10-30 which is	Крош	in., Type	stted 19		Address	Address	Ŧ	County	, 19. 5
	19 56 above t	ft. to						n s	Hansford	56 Field No. RR#2 Office No. A:A:2
	top	 						₹ E		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Unter Basources Branch 05	GEOLOGICAL SURVEY	DEPARTMENT OF THE INTERIOR	UNITED STATES
South local	550 - 50	OR SOP	

															1-14-58	12.67	r-30-32	D. C.	Height .	Measuring	Location	Tenent /	Water L	
																		Depth to water below mess.point		ng Point	\$	70 278	Moas	
																		He.M.P.	at above			J42146	repents	
															260.36	34.822	259.35	Depth to water halow L.S.D.	land-surface			*		
																		Hees.	e datus) 3	۱ ۲ (֝֝֝֝֝֝֝֝֝֝֝֝֝֡֝֝֝֝֝֡֝֝֟֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֜֜֝֟֜֜		
				,											38.1-	ζ (Remarks (pumping, M.P. changed, etc.)	5	5	A TANKEY CE	2	R. R. 2	,
٠.					X	B	` (23	- 5	5-5	5-	5	ם ק	2										

14. Remarks: (Log, Anslyses, etc.) ...

S. E. GOTENBACHT PRINTING OFFICE

obs well

13. Quality

Temp _____

Sample Yes

Adequacy, permanence

Taste, odor, color

11. Yield: Flow G. M., Pump G. M., Meas., Rept. Est.

Horsepower

Power: Kind

12. Use: Dom., Stock, PS., RR., Ind., Irr. (Obs).....

WELL SCHEDUL

Agusten 1921/0/2 P	Table No. HN152	State Well	03.5	5 401	
	wmer's Well No.		ons for		
		_	N. J. J. W J 2 C		
1. Location 1/4, 1/4 July 1/4 Sec. 89 , B1	ock AT Survey TEN	0			
The first on the College State State (1997) and the second				+ 3)_
2. Owner: Cocil Crowford	Address:				
Tenant:	Address:		~~~~~		
renant: Driller: Ed Willenks	Address:			├ ─┼─┼	
3. Elevation of					
h. <u>Drilled:</u> 19 ; Du			CASING & BLAN		
5. Depth: Reptft. Mees.		Cemented F	romft	. to	ft.
6. Completion: Open Hole, Streight Wall, Underress		Diam. (in.)	Туре	Setting, from	ft.
7. Pump: Mfgr.					
No. Stages , Bowls Diam. in., S			- 	l	
Column Diam. in., Length Tailpi]]
8. Motor: Fuel Make & Mo		[].		<u> </u>	
9. Tield: Flow gpm, Pump gpm, Me]
10. Performance Test: Date Length of		1 1]	
Static Levelft. Pumping Levelf	Ct. Drawdownft.				
Productiongpm Specific Caps	ecitygpm/ft.				
11. Water Level: ft. rept. 15			which is	ft. sbor	re surface.
258.55 m. mas. 1-24 19	58 M.P.		which is_d	2 Oft. abov	ve surface.
n. rept. 19	apove				
ft. rept. 15	below below		which is	ft. abov	We surface.
12. Use: Dom., Stock, Public Supply, Ind. Ir					
13. Quality: (Remarks on taste, odor, color, etc.)					
Temp. T, Date sampled for analysis	Leboratory		WEIL SCR	FEN	 1
Temp *F, Date sampled for amalysis	Laboratory		Openings		
Temp *F, Date sampled for analysis	Leboretory	Diem. (in.)	Туре	Setting, from	to to
14. Other data available as circled: Driller's Log,	, Radioectivity Log, Electric Log,				
Formation Samples, Pumping Test,				J	
15. Record by: Copied by M. W. W. Source of Data M.P. N. D.	Date19_				İ
Source of Data M.P. M.D.				 	
16. Remarks:					

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					1
***************				<u>                                     </u>	
				<del>-</del>	
~~				<b></b>	

STATE OF TEXAS WELL REPORT for Tracking #60619

Owner: Latigo Petroleum Inc. Owner Well #: #3 Riley

Address: 15 W. 6th St., Ste. 1100 Grid #: 03-55-1

**Tulsa, OK 74119** 

Well Location: No Data

Latitude: 36° 13' 13" N

Longitude: 101° 12' 52" W

Well County: Hansford Elevation: No Data

Type of Work: New Well Proposed Use: Industrial

Drilling Start Date: 2/19/2004 Drilling End Date: 2/19/2004

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 12.5
 0
 420

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size

Filter Pack Intervals: 240 420 Gravel

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

7

Seal Method: **Neat Cement** Distance to Property Line (ft.): **No Data** 

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Alternative Procedure Used

Water Level: 290 ft. below land surface on 2004-02-19 Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 336

Well Tests: Pump Yield: 100 GPM with 10 ft. drawdown after 1 hours

Water Quality:

Strata Depth (ft.)	Water Type
290	Good

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Howard Drilling Co.

**Box 806** 

Beaver, TX 73932

Driller Name: Phillip Howard License Number: 4723

Comments: \$dfs

# Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

# Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Clay Top Soil
2	10	Clay
10	29	Caliche Clay
29	37	Caliche Clay Sandy Clay
37	80	Caliche Clay
80	96	Sandy Clay
96	130	Caliche Clay Sandy Clay
130	147	Sand Sandy Clay
147	183	Caliche Clay Sandy Clay
183	202	Sandy Clay
202	236	Clay
236	247	Sandy Clay Fine Sand
247	260	Caliche Clay
260	283	Sandy Clay Fine Sand
283	320	Sand
320	340	Sand Sandy Clay
340	400	Sand
400	410	Sandy Clay Sand

Dia. (in.)	New/Used	Туре	Setting From/To (ft.)	
6 New PVC +2 320 Plain				
6 New PVC Perf. 320 420 .032				

420

## IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

# STATE OF TEXAS WELL REPORT for Tracking #146086

Owner: Louis Schnell Owner Well #: IW #1-08 59-4T

Address: 1015 Barkley St. Grid #: 03-55-2

Spearman, TX 79081

Well Location: Sec 59, Blk 4T, T&NO

Latitude: 36° 13' 09" N

Spearman, TX 79081 Longitude: 101° 12' 06" W

Well County: Hansford Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 5/30/2008 Drilling End Date: 6/1/2008

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 25
 0
 542

Drilling Method: Reverse Circulation

Borehole Completion: Filter Packed

Filter Pack Intervals:

Top Depth (ft.)

Bottom Depth (ft.)

Filter Material

Size

80/20

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Annular Seal Data:

0

20

40 cement

Seal Method: Truck mixed Distance to Property Line (ft.): No Data

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): 2640

Distance to Septic Tank (ft.): No Data

Method of Verification: Estimated

Surface Completion: Unknown

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

No Data

Water Type

No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: LT Drilling Company

PO Box 784

**Sunray, TX 79086** 

Driller Name: Randal James Taylor License Number: 2366

Apprentice Name: Kenneth Bumpas, Jr Apprentice Number: 58150

Comments: No Data

# Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	20	Surface soil to brown clay to caliche
20	100	Caliche w/rock strips to sand w/minor clay strips
100	300	Sand w/minor clay strips
300	400	Med to coarse & fine sand w/sandy clay mix
400	500	Fine loose sand w/sandy clay strips
500	542	Fine sand w/clay mix to red sandy clay & clay & shale

# Casing: BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used	Type	Setting From/To (ft.)		
16 N Blank .250 s	teel ca	asing +1 - 312		
16 N .100 x 104 mill slotted steel casing 312 - 522				
16 N Blank .250 steel casing 522 - 542				

## IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

# **STATE OF TEXAS WELL REPORT for Tracking #271896**

Owner: Sam Beauchamp Owner Well #: IRR #3-11

Address: **PO Box 301** Grid #: **03-55-1** 

Latitude: 36° 12' 50" N

Well Location: Sec 60, Blk 4-T, T&NO

TX

Longitude: 101° 13' 12" W

Well County: Hansford Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 9/19/2011 Drilling End Date: 9/20/2011

Farmsworth, TX 79033

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 24.5
 0
 485

Drilling Method: Reverse Circulation

Borehole Completion: Filter Packed

Filter Pack Intervals:

Top Depth (ft.)

Bottom Depth (ft.)

Filter Material

Size

90f/10c

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

40 sks cement

Seal Method: Truck mixed Distance to Property Line (ft.): No Data

Sealed By: **Hydro Resources-Mid**Distance to Septic Field or other

Continent concentrated contamination (ft.): none obsvd

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed

Water Level: 310 ft. below land surface on 2011-10-04 Measurement Method: Unknown

Packers: No Data

Type of Pump: Turbine Pump Depth (ft.): 460

Well Tests: Pump Yield: 650 GPM

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Hydro Resources-Mid Continent Inc

PO Box 784

**Sunray, TX 79086** 

Driller Name: Randal James Taylor License Number: 2366

Comments: No Data

# Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	14	surface top soil brown clay
14	40	caliche w/rock strips
40	340	sand w/minor clay strips
340	360	med fairly loose sand w/little clay mix
360	400	med fairly loose sand
400	420	med fine fairly loose sand w/clay mix & sandy clay strips
420	440	red sandy clay & clay
440	460	red sandy clay w/med to coarse fairly loose sand & clay mix
460	485	red sandy clay to clay

# Casing: BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
16 N .2	50 steel ca	asing +	1 -305
16 N .100 mill slot perfs 104 pr ft 305-465			
16 N .2	50 steel ca	asing 4	65-485

## IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540 **STATE OF TEXAS WELL REPORT for Tracking #165753** 

Owner: LAREDO PETROLEUM Owner Well #: No Data

Address: 15 W 6TH ST. STE 1800 Grid #: 03-55-4

TULSA, OK 74119

Well Location: HANSFORD GAS UNIT 26-6 89-4-

T&NO TX

Hansford

Well County:

Type of Work: New Well

kNO Longitude:

Elevation: 3083 ft. above sea level

Latitude:

Proposed Use:

36° 11' 08" N

101° 12' 45" W

Rig Supply

Drilling Start Date: 12/20/2008 Drilling End Date: 12/20/2008

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 10.75
 0
 400

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size

Filter Pack Intervals:

200
400
Gravel

Top Depth (ft.) Bottom Depth (ft.) Description (number of sacks & material)

Annular Seal Data: 1 20 4

Seal Method: **CEMENT GROUT** Distance to Property Line (ft.): **No Data** 

Sealed By: HOWARD DRILLING

Distance to Septic Field or other

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Sleeve Installed

Water Level: 290 ft. below land surface on 2008-12-20 Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 385

Well Tests: Pump Yield: 15 GPM with 40 ft. drawdown after 1 hours

Water Quality:

Strata Depth (ft.)	Water Type
290	GOOD

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: HOWARD DRILLING CO.

P.O. BOX 806

**BEAVER, OK 73932** 

Driller Name: PHILLIP HOWARD License Number: 4723

Comments: No Data

# Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

# Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	CLAY
2	25	CALICHE CLAY
25	35	RED CLAY
35	50	CALICHE ROCK
50	70	CALICHE/TAN CLAY
70	82	SANDY CLAY
82	100	CALICHE ROCK
100	120	CALICHE
120	142	CALICHE/SANDY CLAY
142	181	SAND
181	189	CALICHE
189	250	CALICHE SAND
250	260	CALICHE
260	276	SANDY CLAY/SAND
276	335	SAND
335	360	RED CLAY/SAND STREAKS
360	370	RED SANDY CLAY
370	390	RED/RED SANDY CLAY

6 NEW PVC PLA	\IN +2 T	O 300	
		0 300	
6 NEW PVC PERF 300 TO 400 .032			

390 400	RED	
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## IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

# STATE OF TEXAS WELL REPORT for Tracking #71864

Owner: Spearman Cattle Feeders Owner Well #: IW #2-05

Address: P.O. Box 339 Grid #: 03-55-2

Spearman, TX 79081

Well Location: NW/4 Sec 67, Blk 4T, T&NO Survey

Latitude: 36° 12' 36" N

TX Longitude: 101° 11' 12" W

Well County: Hansford Elevation: 3119 ft. above sea level

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 11/22/2005 Drilling End Date: 11/23/2005

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 25
 0
 631

Drilling Method: Reverse Circulation

Borehole Completion: Filter Packed

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size

Filter Pack Intervals: 10 631 Gravel 90/10 crse

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

20 sacks cement

Seal Method: **Truck mixed**Distance to Property Line (ft.): **No Data** 

Sealed By: Driller Distance to Septic Field or other

concentrated contamination (ft.): 1200

Distance to Septic Tank (ft.): No Data

Method of Verification: Estimated

Surface Completion: Unknown

Water Level: 324 ft. below land surface on 2005-11-29 Measurement Method: Unknown

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?:

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: L. T. Drilling Company

P.O. Box 784 Sunray, TX 79086

Driller Name: Randal James Taylor License Number: 2366

Comments: No Data

# Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

#### Top (ft.) Bottom (ft.) Description 0 52 Surface & brown clay 52 80 Caliche Sand w/clay & sandy clay 80 340 strips 340 420 Fine sand w/little clay mixed 420 460 Red sandy clay w/fine sand Very fine sand w/little clay 460 550 Very fine sand w/sandy clay 550 620

strips

Red clay

631

# Casing: BLANK PIPE & WELL SCREEN DATA

No

Dia. (in.)	New/Used	Туре	Setting From/To (ft.)	
16 N BI	ank steel -	⊦1 - 34′	1	
16 N SI	otted stee	341 -	621 .100 X 104	
16 N BI	ank steel (	621 - 63	31	

### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

620

# **ATTACHMENT 11**

Domestic Technical Report 3.0 7. Groundwater Quality Groundwater Quality Technical Report

# DOMESTIC WORKSHEET 3.0 – GROUNDWATER QUALITY ASSESSMENT

#### 7. GROUNDWATER QUALITY

### 1. Evaluation of the Water Wells and Groundwater

The plant is located over the Ogallala Aquifer within the bounds of the North Plains Groundwater Conservation District. The aquifer consists of sand, gravel, silt, and clay sediments. Attached are maps of Hansford County showing the current depth to water and the saturated thickness of the aquifer.

There are no known recharge features within the site boundaries. Several water wells exist within a 1-mile radius of the treatment plant (see Attachment No. 9 – Well and Map Information). Current groundwater quality remains good, as shown in the attached chemical analysis of a nearby public supply well. No nearby wells violate the required buffer zones for either wells or treatment units.

### 2. Wastewater Application Rate

The application rate does not exceed 1.85 acre-feet per acre per year. When irrigating at less than the permitted flow or over less than the permitted acreage, the application rate does not exceed the agronomic rate of 4.53 acre-feet per acre per year. Irrigation is not permitted during rain events. Runoff from irrigation is contained using berms and tailwater controls, ensuring it remains within the boundaries of the treatment plant.

See Attachments No. 12 and 13 – Soil Map and Soil Analysis.

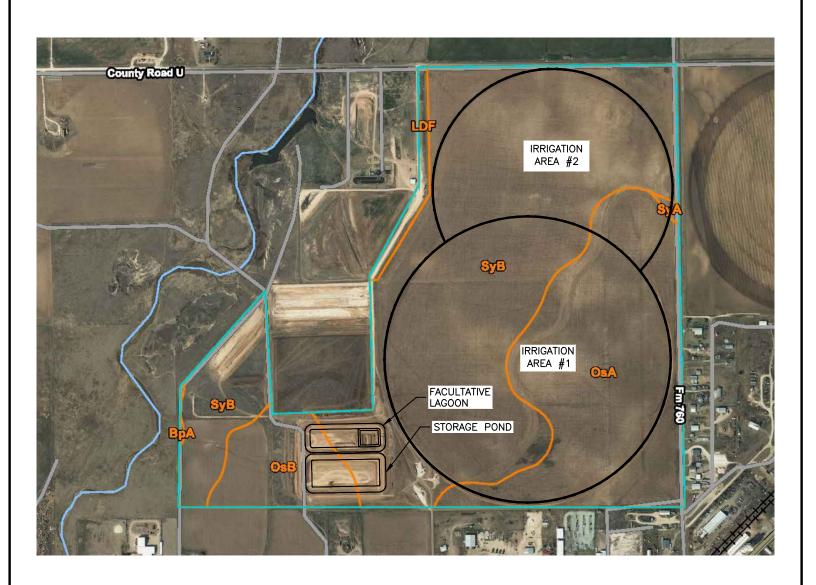
### 3. Pond Liners

The pond liners were constructed using clay material with a coefficient of permeability less than  $1 \times 10^{-7}$  centimeters per second and a minimum thickness of 3 feet.

See Attachment No. 7 – Liner Certification.

# **ATTACHMENT 12**

Domestic Technical Report 3.08. Soil Map and Soil AnalysesUSDA Soil Survey Map



(FOR PERMIT PURPOSES ONLY)



CITY OF SPEARMAN PERMIT RENEWAL — WASTEWATER TREATMENT PLANT

# SOIL MAP WASTEWATER TREATMENT PLANT

PROJ. NO. 82989 | DATE: SEPTEMBER 2025 | SCALE: 1"=1000"

FIGURE:

#12

# **ATTACHMENT 13**

Domestic Technical Report 3.0 8. Soil Map and Soil Analyses Soil Analyses

# DOMESTIC WORKSHEET 3.0 – GROUNDWATER QUALITY ASSESSMENT

8. SOIL MAP AND SOIL ANALYSES
B. SOIL ANALYSES

Please provide yearly soil testing data for the following

- pH
- Electrical Conductivity
- Sodium Absorption Ratio
- Total Kjeldahl Nitrogen
- Total Nitrogen
- Nitrate-nitrogen
- Potassium
- Phosphorous
- Calcium
- Magnesium
- Sulfur
- Sodium

# ATTACHMENT 14

Copy of Payment



4537 CANYON DRIVE • AMARILLO, TEXAS 79110 • 806.353.7233

October 23, 2025

Francesca Findlay
Application Review and Processing Team (MC148)
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Re:

Application to Renew Permit No. WQ0010977001

Issued to City of Spearman (CN 600251235; RN 103137323)

Dear Ms. Findlay:

This transmittal letter is intended to address each comment in the Pre-Technical Review email dated October 8, 2025 for WWTP Permit No. WQ0010977001. The comments from the Pre-Technical review are included and addressed below.

1. Administrative Report 1.0, Section 2, item C: Please verify the appropriate permit type. Please provide an updated page.

The facility is currently in the final phase of permitting, operating under a Texas Land Application Permit (TLAP) and no longer under a Texas Pollutant Discharge Elimination System (TPDES) permit.

2. Administrative Report 1.0, Section 10: Please complete the TPDES Discharge Information. Please provide an updated page

The facility no longer falls under the jurisdiction of the Texas Pollutant Discharge Elimination System (TPDES).

3. Technical Report 1.0, Section 3, Item C: Please verify the Final Phase. Please provide an updated page.

The construction of the facility has been finalized, and the project has entered its final phase.

4. 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.

The English version of the NORI document is accurate and conforms to the intended content.

5. 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.

The Spanish version of the NORI document is attached.

Sincerely,

HI-PLAINS CIVIL ENGINEERS

Adolfo Garcia, P.E.

cc: City of Spearman

# 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. WQ00

SOLICITUD. [Ciudad de Spearman, P.O. Box 37], ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010977001 (EPA I.D. No. TX 0032328) 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 [400,000] galones por día. La planta está ubicada [en 2650 pies al oeste de la nterseccion de County Road U y Farm to Market 790] en el Condado de [Hansford], Texas [79081]. La ruta de descarga es del sitio de la planta a [hasta Horse Creek; de allí hasta el embalse de Palo Duro; de allí hasta Palo Duro Creek; de allí hacia el estado de Oklahoma antes de llegar a un segmento clasificado en la cuenca del río Canadian. ]. La TCEQ recibió esta solicitud el [Octubre 8, 2025]. La solicitud para el permiso estará disponible para leerla y copiarla en [30 Southwest Court] antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

[https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.204722,36.206666&level=18]

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

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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia

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

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

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

También se puede obtener información adicional del [Ciudad de Spearman] a la dirección indicada arriba o llamando a [Justin parker] al [(806) 659-2524].

Fecha de emisión: [Date notice issued]

# 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. WOOO

**SOLICITUD.** [Ciudad de Spearman, P.O. Box 37], ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010977001 (EPA I.D. No. TX 0032328) 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 [400,000] galones por día. La planta está ubicada [en 2650 pies al oeste de la nterseccion de County Road U y Farm to Market 790] en el Condado de [Hansford], Texas [79081]. La ruta de descarga es del sitio de la planta a [hasta Horse Creek; de allí hasta el embalse de Palo Duro; de allí hasta Palo Duro Creek; de allí hacia el estado de Oklahoma antes de llegar a un segmento clasificado en la cuenca del río Canadian.

J. La TCEQ recibió esta solicitud el [Octubre 8, 2025]. La solicitud para el permiso estará disponible para leerla y copiarla en [30 Southwest Court] antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

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[https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.204722,36.206666&level=18]

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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.

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LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia

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

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

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

También se puede obtener información adicional del *[Ciudad de Spearman]* a la dirección indicada arriba o llamando a *[Justin parker]* al *[(806) 659-2524]*.

Fecha de emisión: [Date notice issued]

# ATTACHMENT 6

Domestic Technical Report 1.0 7. Pollutant Analysis of Treated Effluent data

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

Is the facility in operation?

⊠ Yes □ No

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

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

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

Table 1.0(1) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Averag e Conc.	Max Conc.	No. of Samples	Sampl e Type	Sample Date/Tim e
CBOD ₅ , mg/l	14	-	1	GRAB	9/22/25 8:50
Total Suspended Solids, mg/l	31	-	1	GRAB	9/22/25 8:50
Ammonia Nitrogen, mg/l	4.01	-	1	GRAB	9/22/25 8:50
Nitrate Nitrogen, mg/l	<0.40	-	1	GRAB	9/22/25 8:50
Total Kjeldahl Nitrogen, mg/l	11.1	-	1	GRAB	9/22/25 8:50
Sulfate, mg/l	54.9	-	1	GRAB	9/22/25 8:50
Chloride, mg/l	143	-	1	GRAB	9/22/25 8:50
Total Phosphorus, mg/l	4.62	-	1	GRAB	9/22/25 8:50
pH, standard units	8.0	-	1	GRAB	9/22/25 8:50
Dissolved Oxygen*, mg/l	5.8	-	1	GRAB	9/22/25 8:50

Chlorine Residual, mg/l	0	-	1	GRAB	9/22/25 8:50
E.coli (CFU/100ml) freshwater	291	-	1	GRAB	9/22/25 8:50
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	732	-	1	GRAB	9/22/25 8:50
Electrical Conductivity, µmohs/cm, †	1350	-	1	GRAB	9/22/25 8:50
Oil & Grease, mg/l	<7	-	1	GRAB	9/22/25 8:50
Alkalinity (CaCO ₃ )*, mg/l	556	-	1	GRAB	9/22/25 8:50

^{*}TPDES 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	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃ ), mg/l	N/A	N/A	N/A	N/A	N/A

# Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Steven T. Dettner

Facility Operator's License Classification and Level: MSW, Class A

Facility Operator's License Number: <u>#SW008049</u>

[†]TLAP permits only



# ENVIRONMENTAL MONITORING LABORATORY, L.L.C

P.O. Box 477 6145 State Highway 171 Hillsboro, Texas 76645 Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

# **ANALYTICAL REPORT 25092232**

For:

City of Spearman P.O. Box 37 Spearman, Texas 79081

Sample Site: Renewal Analysis

Collected Date: 09/22/25



Lab Number: TX01547

Authorized for release by: 29-SEP-25

Serissa R Beck

Serissa Beck, Assistant General Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory



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BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

# **ANALYTICAL RESULTS**

Analytical Report: 25092232

Lab ID:

25092232-001

Collected Date: 09/22/25 08:50

Matrix: Waste Water

Client:

City of Spearman

Received Date: 09/22/25 18:20

Temp at Receipt: 4°C

Sample Site: Renewal Analysis

Report Date:

09/29/25

Sample Collector: GW

				-		
Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	NP	09/24/25 09:27	4.01	mg/L
Carbonaceous BOD	CBOD	SM 5210/B	NP	09/23/25 13:30	14	mg/L
Total Suspended Solids	TSS	SM 2540/D	NP/P	09/23/25 11:04	31	mg/L
РН	SM4500-H	SM4500/H	Ν	09/22/25 08:50	8.0	SU
Nitrate as N	E300.0	E 300.0	NP/P	09/23/25 13:50	<0.400	mg/L
Dissolved Oxygen	DO	SM 4500-0	N	09/22/25 08:50	5.8	mg/L
Total Phosphorus (as P)	T.PHOS.	SM 4500-P/E	NP	09/25/25 11:37	4.62	mg/L
Nitrogen, Total Kjeldahl	TKN	SM 4500-NH3/D	NP	09/24/25 14:41	11.1	mg/L
Total dissolved solids	SM2540C	SM 2540/C	NP/P	09/24/25 15:27	732.0	mg/L
Sulfate	E300.0	E 300.0	NP/P	09/23/25 14:01	54.9	mg/L
Chloride	CI-	SM 4500-CI-/B	NP	09/25/25 11:24	143	mg/L
Chlorine	SM4500-CL	SM4500-CL	NP	09/22/25 08:50	0.0	mg/L
n-Hexane Extractable Material (HEM)	O&G	SM 5520/B	NP	09/24/25 09:45	<7.00	mg/L
Alkalinity, Total (CaCO3)	ALK	SM 2320/B	NP	09/25/25 13:15	556	mg/L
Conductivity @ 25C	Cond	SM 2510/B	NP	09/25/25 12:46	1350	umhos/cm

P: Potable water NP: Non Potable water N: Not Certified

### **QUALITY ASSURANCE & QUALITY CONTROL**

					Quali	ty Control		_	_
ANALYTE	ABBR./ ALT.NAME	STANDARD METHOD	UNITS	S.D.	CV%	REC.1%	REC.2%	MDL/PQL	Q
Nitrate as N	E300.0	E 300.0	mg/L					0.400 / 0.400	
Sulfate	E300.0	E 300.0	mg/L			1.11		1.00 / 1.80	
Alkalinity, Total (CaCO3)	ALK	SM 2320/B	mg/L					1.50 / 5.00	
Chloride	CI-	SM 4500-CI-/B	mg/L	1.41	0.28	100	102	1.00 / 3.00	
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	mg/L	0.02	1.68	105.7	102.8	0.0300 / 0.100	
Nitrogen, Total Kjeldahl	TKN	SM 4500-NH3/D	mg/L	0.22	1.96	95.6	92.6	0.0200 / 0.120	
Total Phosphorus (as P)	T.PHOS.	SM 4500-P/E	mg/L	0.04	0.35	107.1	106.1	.02 / .05	
n-Hexane Extractable Material (HEM)	O&G	SM 5520/B	mg/L	0.07	0.07	98.2	100.8	7.00 / 7.00	
Chemical Oxygen Demand	COD	SM 5220/D	mg/L						
Turbidity	TURB.	SM 2130/B	NTUs						
Total Percent Solids	%d.w	SM 2540/G	%		•				N

	ous Biochemi	/gen Demand(BOD) cal Oxygen Demand(CBOD)		Dissolved Ox Method: SM 45		Total S	Suspended Solid Method: 25	ls (TSS, MLSS) 40/D
	Method:	SM 5210/B	Results	Units	Description	Results	Units	Description
Results	Units	Description	8.88	mg/L	Set Up Calibration	0.1	mg/L	Blank 1
0.09	mg/L	Blank 1 - CBOD	9.07	mg/L	Read Off Calibration			
0	mg/L	Blank 2 - CBOD	20	°C	Set Up Temperature	3.48	%	Relative % Difference
0	mg/L	Blank 3 - CBOD	20	°C	Read Off Temperature	2.58	%	Relative % Difference
204	mg/L	G/GA Std 1 - CBOD	757	mm Hg	Set Up Barometer		Conductivity @ Method: SM2	
208	mg/L	G/GA Std 2 - CBOD	762	mm Hg	Read Off Barometer	Standa		analytical batch.
202	mg/L	G/GA Std 3 - CBOD		Fecal Colif	orm	Results	Units	Description
205	mg/L	G/GA Average - CBOD		Method: SM922		Hoodilo	umhos/cm	Conductivity Standard
			Results	Units	Description		umhos/cm	Conductivity Standard
0.71	mg/L	Seed Corr/mL - CBOD		CFU/100ml	Pre Blank		umhos/cm	Conductivity Standard
0.71	mg/L	Seed Corr/mL - CBOD		07 07 1001111	1 TO DIGITA			•
0.73 0.72	mg/L	Seed Corr/mL - CBOD		CFU/100mi	Post Blank			
0.72	mg/L	Seed Corr Average - CBOD						
			D 14 -	TDS by SM2				
l			Results	Units	Description			
			0	mg/L	Blank			
				ED. IDENY O-EL	at I a source and the sol			
			E. COI	li By IDEXX Colile	rr (enumeration)			
				MPN/100 mL				

**Report Out Date:** <u>09/29/2025</u>

Jenssa R Beck

Serissa Beck Assistant General Manager

# QUALITY ASSURANCE & QUALITY CONTROL

Standard Method SM 2540/D

Matrix Waste Water

Batch Number 83006

Flags RPD Limits 0-10% RPD Rec. Limits 80-120% Per. Rec. %0 Spike Conc. Ref. Value 0.1000 mg/L Result Total Suspended Solids Parameter 83006-1-MB Sample ID

Standard Method E 300.0

Matrix Waste Water

Batch Number 83015

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
83015-1-LCS	Nitrate as N	7.89 mg/L		8.00 mg/L	%66	90-110%		0-20%	
83015-1-LCSD	Nitrate as N	7.85 mg/L		8.00 mg/L	%86	90-110%	1%	0-20%	
83015-1-UNS	Nitrate as N	0.150 mg/L			%0	90-110%		0-20%	
25092213-001 S	Nitrate as N	7.79 mg/L	0.150 mg/L	8.00 mg/L	% 96	80-120%		0-20%	
25092213-001 SD	Nitrate as N	7.79 mg/L	0.150 mg/L	8.00 mg/L	% 96	80-120%	%0	0-20%	

Standard Method E 300.0

Matrix Waste Water

Batch Number 83016

Rec. Limits RPD RPD Limits Flags	90-110% 0-20%	90-110% 0% 0-20%	90-110% 0-20%	80-120% 0-20%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Per. Rec.	%26	%26	%0	92 %	
Spike Conc.	15.0 mg/L	15.0 mg/L		15.0 mg/L	: (1)
Ref. Value				3.59 mg/L	
Result	14.5 mg/L	14.5 mg/L	3.59 mg/L	17.4 mg/L	. !
Parameter	Sulfate	Sulfate	Sulfate	Sulfate	
Sample ID	83016-1-LCS	83016-1-LCSD	83016-1-UNS	25091987-001 S	

# QUALITY ASSURANCE & QUALITY CONTROL

SM 2540/C Standard Method Waste Water Matrix

83042 **Batch Number**  Flags RPD Limits 0-10% RPD Rec. Limits 80-120% Per. Rec. %0 Spike Conc. Ref. Value Result < mg/L Total dissolved solids Parameter 83042-1-MB Sample ID

SM 5210/B Standard Method Waste Water Matrix

83088

Batch Number

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
83088-1-BKS01	Carbonaceous BOD	204 mg/L		198 mg/L	103%	85-115%		0-25%	
83088-2-BKS02	Carbonaceous BOD	208 mg/L		198 mg/L	105%	85-115%		0-25%	
83088-3-BKS03	Carbonaceous BOD	202 mg/L		198 mg/L	102%	85-115%		0-25%	
83088-4-BKS04	Carbonaceous BOD	205 mg/L		198 mg/L	104%	85-115%		0-25%	
83088-1-BLK01	Carbonaceous BOD	0.0900 mg/L			%0	85-115%		0-25%	
83088-2-BLK02	Carbonaceous BOD	< mg/L			%0	85-115%		0-25%	
83088-3-BLK03	Carbonaceous BOD	< mg/L			%0	85-115%		0-25%	

Environmental Monitoring Laboratory * P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 * Phone: (254) 582-2622

# Purchase Order / Chain of Custody

Southwest Division 811 E. Yanny Street Llanc, Texas 78513 Office: 325-247-2205 Envergency, 254-502-2622 Pardandle Division 1220 South US Hay 267 Amadlo, Texas 79118 Office 806-455-983 Emergency, 406-769-6612

East Texas Division (4255 S.H. 155 North Winna, Texas 75792 Office 913-677-9522 Energency: 917-357-9535

Office 178-753-1010 Emergency, 234-221-3201 Coastal Division 34 East Ave., Schulenbring, Texas 78955



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Complete sample information is vitation proper logim and reporting. EALL may need to subcentract some analyses due to equipment or procedural immanions. Check us out on the web: http://www.yourwaterlab.com

Email us at: homeoffice@yourwaterlab.com

Revised 04/2025

Page 6 of 6

Final 1.000



# ENVIRONMENTAL MONITORING LABORATORY, L.L.C

Panhandle Division 13260 South Highway 287 Amarillo, TX 79118-7005

Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

# **ANALYTICAL REPORT 25092233**

For:

City of Spearman P.O. Box 37 Spearman, Texas 79081

Sample Site: Renewal Analysis

Collected Date: 09/22/25



Lab Number: TX01547

Authorized for release by:

24-SEP-25

Lisa Soward, Data Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory



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# **ANALYTICAL RESULTS**

Analytical Report: 25092233

Sample Site: Renewal Analysis

Lab ID:

Client:

25092233-001

City of Spearman

Collected Date: 09/22/25 08:50

Received Date: 09/22/25 10:30 09/24/25

Report Date:

Matrix: Waste Water

Temp at Receipt: 10.3 °C

Sample Collector: GW

Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
E. coli	E. coli	IDEXX Colilert	NP	09/22/25 10:31	291	MPN/100 mL

P: Potable water

NP: Non Potable water N: Not Certified

Control #: 25092233

# **QUALITY ASSURANCE & QUALITY CONTROL**

market.	ABBR./ ALT.NAME	STANDARD METHOD	3.7	Quality Control					
ANALYTE			UNITS	S.D.	S.D. CV%	REC.1%	REC.2%	MDL/PQL	Q
Chloride	CI-	SM 4500-CI-/B	mg/L		NGC AND AND THE PARTY OF THE PARTY OF				**************************************
Alkalinity	ALK	SM 2320/B	mg/L					W 1	
Total Phosphorus	T.PHOS.	SM 4500-P/E	mg/L						***************************************
Total Kjeldahl Nitrogen	TKN	SM 4500-NH3/D	mg/L						
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	mg/L						
Oll & Grease	O&G	SM 5520/B	mg/L						
Chemical Oxygen Demand	COD	SM 5220/D	mg/L						
Turbidity	TURB.	SM 2130/B	NTUs						
Total Percent Solids	%d.w	SM 2540/G	%						N

Biochemical Oxygen Demand(BOD) Carbonaceous Blochemical Oxygen Demand(CBOD)		Dissolved Oxygen Method: SM 4500-O*/G			Total Suspended Sollds (TSS, MLSS) Method: 2540/D			
Method: SM 5210/B		Results	Units	Description	Results	Units	Description	
Results	Units	Description	; ;	mg/L mg/L	Set Up Calibration Read Off Calibration			
				°C °C	Set Up Temperature Read Off Temperature	Standa	Conductivity @ Method: SM2 rds ran for each	
				mm Hg	Set Up Barometer	Results	Units	Description
				mm Hg	Read Off Barometer		umhos/cm umhos/cm	Conductivity Standard Conductivity Standard
			Fecal Coliform Method: SM9222 /D MF			umhos/cm	Conductivity Standard	
			Results	Units	Description			
				CFU/100ml	Pre Blank			
				CFU/100ml	Post Blank			
			TDS by SM2540/C					
		·	Results	Units	Description			
				mg/L	Biank			
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				MPN/100 mL				
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Report Out Date: <u>09/24/2025</u>

Lisa Soward Data Manager

Visasoward

Environmental Monitoring Laboratory * P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 * Phone: (254) 582-2622

Purchase Order / Chain of Custody

East Texas Division. 14295 S.H. 165 North Winner, Texas 75792. Office: 908-877-9222. Emergency: 917-357-4535. Southwest Division 811 E. Young Sheet Usno, Texas 78643 Office: X5-247-3295, Emergency: 254-582-2622

13060 South U.S. Hwy 287 Amenito, Texas 78116 Office, 806-335-8353 Emergency, 805-285-9612

Coastal Division 34 East Ave., Schulenburg, Texas 78956 Office: 979-743-7010 Emergency, 254-221-3

Sample Remarks Analyzed in Amerillo Location of Environmental Mcnitoring Laboratory, LLC 13260 South US Hir, hway 287 Amerillo TX 79118-7005 NOTES 1. None 2. Sedunio 3. NOSH - Zelo 8. NOSH - Zelo 5. Seede - Throad 7. Seede - Throad RGUND MITRATE, SULFATE Time OIL & GREASE ANALYSES REQUESTED CHLORIDE, CONDUCTIVITY YTINIJAXIJA SSTIM FECAL COLIFORM / **E.COLI** (Sterlle) × Date specified TKN, TOT PHOS AH3N (pH<2.0, H2504) SIM4500-NH3 D or G unless 8 OQ Hd 80T ,88T dba / doab 1Bottle Code Pres. Code Ó 25092233 Received By: **6800** Time Q-22-5% Date 10:30 Quote # . Пте Arabasio) Report To: (Buyer) City, State: Purchase Order #: Matrix 8-22-8 Date Address: Sampler: (Please Print) Enail Clent Sample ID 1.Renewal Analysis MINI Company: City of Spearman Report To: City of Spearman Pot de la Spearman, TX 79061 얼 11 wá. w City of Spearman 30 SM Court St. 25,000,000 Relinquished By Project Location: Hand Deliver, or Project Name: Tap#

Phone Email:

Camplete sample information is vital for proper login and reporting. EML may need to subcontact some analyses due to equipment or procedural limitations. Check us out on the web: http://www.yourwaterlab.com

Email us at: homeoffice@yourwaterlab.com

Revised D4/2025

Final 1.000

Page 4 of 4

# Francesca Findlay

From: Latisha Lavrar <latishav@hpcetx.com>
Sent: Wednesday, November 5, 2025 10:24 AM

**To:** Francesca Findlay

**Subject:** Spearman Permit No. WQ0010977001

**Attachments:** 2989-Technical Response.pdf

Good Morning,

Please see the attached.

Thank you,

### Latisha LaVrar

Administrative Assistant

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | latishav@hpcetx.com | www.hpcetx.com



# Francesca Findlay

From: Sent: Fo: Subject: Attachments:	Latisha Lavrar <latishav@hpcetx.com> Thursday, November 6, 2025 2:52 PM Francesca Findlay Re: Spearman Permit No. WQ0010977001 Municipal Discharge Renewal Spanish NORI (1).docx; Pollutant Analysis.pdf</latishav@hpcetx.com>
Francesca,	
My apologies on that.	
Attached is the Spanish Nori data.	n Word format and the Attachment 6 Pollutant Analysis of Treated Effluent
Γhank you,	
On Thu, Nov 6, 2025 at 1:52 P	M Francesca Findlay < <u>Francesca.Findlay@tceq.texas.gov</u> > wrote:
Good afternoon,	
Please resend the Transla have any questions.	ted Spanish Nori in a word document. Please let me know if you
Thank you,	
Francesca Findlay	
License & Permit Special	st
ARP Team   Water Qual	ty Division
512-239-2441	
Texas Commission on En	vironmental Quality



How is our customer service? Fill out our online customer satisfaction survey at <a href="http://www.tceq.texas.gov/customersurvey">http://www.tceq.texas.gov/customersurvey</a>.

From: Latisha Lavrar < latishav@hpcetx.com > Sent: Wednesday, November 5, 2025 10:24 AM
To: Francesca Findlay < Francesca. Findlay@tceq.texas.gov > Subject: Spearman Permit No. WQ0010977001
Good Morning,
Please see the attached.
Thank you,
Latisha LaVrar
Administrative Assistant
4537 Canyon Drive Amarillo, Texas 79110
Office: 806.353.7233   latishav@hpcetx.com   www.hpcetx.com

### **Erwin Madrid**

From: Erwin Madrid

**Sent:** Wednesday, November 5, 2025 9:30 AM

**To:** 'citymanager@spearmantx.gov'

Cc: Francesca Findlay; 'adolfo@hpcetx.com'

**Subject:** Application for Permit No. WQ0010977001 – Notice of Deficiency 30-Day Will Return

Letter

Attachments: WQ0010977001_Will Return Ltr.pdf

**Importance:** High

Dear applicant,

The attached Notice of Deficiency 30-Day Will Return Letter was mailed on <u>November 5, 2025</u>, requesting additional information needed to declare the application administratively complete. Please mail an original and two copies (with a cover letter) of the complete response by <u>December 5, 2025</u>.

Regards,

Erwin Madrid
Team Lead
ARP Team | Water Quality Division
512-239-2191
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail.

### **TCEQ Interoffice Memorandum**

**To:** Deba Dutta, Team Leader, Municipal Permits Team

From: Mara Guerin, Water Quality Assessment Team

**Date:** October 22, 2025

Subject: Segment Review, Permit Renewal, WQ0010977001, City of Spearman, Hansford

County

Segment Number: 0199A

Segment Name: Palo Duro Reservoir

Basin Name: Canadian River Basin

# THE TONMENTAL OUR LEVEL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

### A. Existing/Interim I Phase

Design Flow (MGD): <u>0.4</u>

2-Hr Peak Flow (MGD): <u>1.2</u>

Estimated construction start date: <u>2019</u> Estimated waste disposal start date: <u>2022</u>

### **B.** Interim II Phase

Design Flow (MGD): <u>0.4</u>

2-Hr Peak Flow (MGD): <u>1.2</u>

Estimated construction start date: <u>2019</u>

Estimated waste disposal start date: 2022

### C. Final Phase

Design Flow (MGD): <u>0.4</u>

2-Hr Peak Flow (MGD): 1.2

Estimated construction start date: 2019

Estimated waste disposal start date: 2022

## D. Current Operating Phase

Provide the startup date of the facility: 2022

# Section 2. Treatment Process (Instructions Page 42)

# A. Current Operating Phase

Provide a detailed description of the treatment process. Include the type of treatment plant, mode of operation, and all treatment units. Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. If more than one phase exists or is proposed, a description of *each phase* must be provided.

A lagoon system consisting of a facultative lagoon, storage lagoon, and land application area.				

### **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)
Facultative Lagoon -	1	810' x 270' x 10' - 15'
Storage Lagoon	1	810' x 383.5' x 13'
Irrigation Pivots	2	166.6 acres and 75 acres

### C. Process Flow Diagram

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

Attachment: 4

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

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

Latitude: N/ALongitude: N/A

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

Latitude: 36.206675Longitude: -101.204743

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

Attachment: 5 Provide the name **and** a description of the area served by the treatment facility. City of Spearman, located in Hansford County, Texas 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 Owner Name Owner Type Population Served Collection System Name** 2964 City of Spearman City of Spearman **Publicly Owned** Wastewater Treatment Facility Choose an item. Choose an item. Choose an item. Section 4. Unbuilt Phases (Instructions Page 44) Is the application for a renewal of a permit that contains an unbuilt phase or phases? Yes 🖂 No If ves, 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. N/A

disposal site.

Section 5. Closure Plans (Instructions Page 44)
Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?
□ Yes ⊠ No
If yes, was a closure plan submitted to the TCEQ?
□ Yes □ No
If yes, provide a brief description of the closure and the date of plan approval.
N/A
Section 6. Permit Specific Requirements (Instructions Page 44)
For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.
A. Summary transmittal
Have plans and specifications been approved for the existing facilities and each proposed phase?
⊠ Yes □ No
If yes, provide the date(s) of approval for each phase: 04/16/2019
Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. <b>Provide a copy of</b> an approval letter from the TCEQ, if applicable.
Notify TCEQ within 60 days of construction completion
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.

	N/	A
C.	Ot	her actions required by the current permit
	su	bes the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		<b>yes</b> , provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	N/	A
D	Cr	it and grease treatment
υ.		
	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.
		N/A

### 3. Grit disposal

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

		□ Yes □ No
		<b>If No</b> , 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.
		N/A
	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.
		N/A
E.		ormwater management
	1.	Applicability
		Does the facility have a design flow of 1.0 MGD or greater in any phase?
		□ Yes ⊠ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		□ Yes ⊠ No
		If no to both of the above, then skip to Subsection F, Other Wastes Received.
	2.	MSGP coverage
		Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		□ Yes □ No
		☐ Yes ☐ No  If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		If yes, please provide MSGP Authorization Number and skip to Subsection F, Other
		If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

	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:
	N/A
Į.	Existing coverage in individual permit
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	□ Yes □ No
	<b>If yes</b> , 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.
	N/A
- ).	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.
	N/A
	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,

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

3. Conditional exclusion

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.
		N/A
	'	Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
	If <u>N</u>	yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. $\underline{\mathbf{A}}$
G.		her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the ${\rm BOD}_5$ concentration of the sludge, and the design ${\rm BOD}_5$ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		N/A
	'	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.
The City of Spearman accepts an average of 45,000 gallons of septic waste per month.
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.
N/A
Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)
s the facility in operation?
⊠ Yes □ No
<b>f no</b> , this section is not applicable. Proceed to Section 8.

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

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

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

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

^{*}TPDES permits only

Table 1.0(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	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃ ), mg/l	N/A	N/A	N/A	N/A	N/A

[†]TLAP permits only

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

Facility Operator Name: Steven T. Dettner

A.

B.

Facility Operator's License Classification and Level: MSW, Class A

Facility Operator's License Number: #SW008049

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

WW	TP's Sewage Sludge or Biosolids Management Facility Type
Che	ck all that apply. See instructions for guidance
	Design flow>= 1 MGD
	Serves >= 10,000 people
	Class I Sludge Management Facility (per 40 CFR § 503.9)
	Biosolids generator
	Biosolids end user – land application (onsite)
	Biosolids end user – surface disposal (onsite)
	Biosolids end user – incinerator (onsite)
ww	TP's Sewage Sludge or Biosolids Treatment Process
Che	ck 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. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

#### **Biosolids Management**

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

#### D. Disposal site

Disposal site name: City of Spearman Municipal Waste Landfill

TCEQ permit or registration number: 2352

County where disposal site is located: Hansford County

#### E. Transportation method

Method of transportation (truck, train, pipe, other): Front end Loader

Name of the hauler: City of Spearman Municipal Waste Landfill

Hauler registration number: 2352

Sludge is transported as a:

Liquid □ semi-l	iguid 🛮	semi-solid □	solid ⊠

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

#### A. Beneficial use authorization

Does the	existing	permit	include	authori	zation	for	land	applic	ation	of 1	bioso	olids	for
beneficia	l use?												

Yes	No

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

□ Yes		No
-------	--	----

		Form No.						Use of Sewage Sludge e instructions for	1
		Yes $\square$	No						
B.	Sludge	processin	g authorizatio	n					
			permit include al options?	e authorization	for an	y of the	follow	ving sludge processing,	
	Sluc	dge Compo	osting			Yes	$\boxtimes$	No	
	Mar	keting and	d Distribution o	of Biosolids		Yes		No	
	Sluc	dge Surfac	e Disposal or S	ludge Monofill		Yes	$\boxtimes$	No	
	Ten	nporary st	orage in sludge	lagoons		Yes	$\boxtimes$	No	
	author	ization, is		Domestic Was	tewate	r Permi	t Appl	esting to continue this lication: Sewage Sludge application?	ĵ
		Yes $\square$	No						
Se	ection	11. Sev	vage Sludge	Lagoons (I	nstru	ctions	Page	e 53)	
			lude sewage sli				<u> </u>	,	
	□ Ye			0 0					
If	yes, com	iplete the	remainder of th	nis section. If n	o, proc	eed to S	Section	12.	
A.	Locatio	on informa	ntion						
			ps are required hment Number		ed as p	art of t	he app	lication. For each map,	
	•	Original G	eneral Highway	(County) Map	<u>.</u>				
		Attachme	nt: <u>N/A</u>						
	•	USDA Natı	ıral Resources	Conservation S	Service S	Soil Ma _l	p:		
		Attachme	nt: <u>N/A</u>						
	•	Federal En	nergency Manaş	gement Map:					
		Attachme	nt: <u>N/A</u>						
	•	Site map:							
		Attachme	nt: <u>N/A</u>						
	Discuss apply.	s in a desc	ription if any o	f the following	exist w	vithin tl	ne lago	on area. Check all that	
		Overlap a	designated 10	0-year frequen	cy floo	d plain			
		Soils with	flooding class	ification					
		Overlap a	n unstable area	a					
		Wetlands							

	Located less than 60 meters from a fault
	None of the above
Att	rachment: N/A
_	rtion of the lagoon(s) is located within the 100-year frequency flood plain, provide otective measures to be utilized including type and size of protective structures:
N/A	

#### **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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: <u>N/A</u> Potassium, mg/kg: <u>N/A</u>

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: <u>N/A</u>

Cadmium: <u>N/A</u>

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

#### 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.
	N/A
D.	Site development plan
	Provide a detailed description of the methods used to deposit sludge in the lagoon(s):
	N/A
	Attach the following documents to the application.
	<ul> <li>Plan view and cross-section of the sludge lagoon(s)</li> </ul>
	Attachment: N/A
	Copy of the closure plan
	Attachment: N/A
	Copy of deed recordation for the site
	Attachment: N/A
	• Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
	Attachment: N/A
	<ul> <li>Description of the method of controlling infiltration of groundwater and surface water from entering the site</li> </ul>
	Attachment: N/A
	<ul> <li>Procedures to prevent the occurrence of nuisance conditions</li> </ul>
	Attachment: N/A
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: N/A

## Section 12. Authorizations/Compliance/Enforcement (Instructions)

Page 54)
A. Additional authorizations
Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc? $\Box$ Yes $\boxtimes$ No
If yes, provide the TCEQ authorization number and description of the authorization:
N/A
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
<b>If yes</b> to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:
N/A

## 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: N/A

## Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

#### **CERTIFICATION:**

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

Printed Name: <u>Justin Parker</u>
Title: <u>City Manager</u>

Signature: _	 	 -
Date:		

## DOMESTIC WASTEWATER PERMIT APPLICATION **WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT**

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

#### Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal: Surface application Subsurface application Irrigation Subsurface soils absorption Drip irrigation system Subsurface area drip dispersal system Evapotranspiration beds **Evaporation** Other (describe in detail): Click to enter text. NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

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

#### Land Application Site(s) (Instructions Page 67) Section 2.

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

#### Table 3.0(1) - Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native grass, Pastureland (Warm Season)	241.8	400,000	N
Rye grass (Overseed during cool season)	241.8	400,000	N

#### Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

#### Table 3.0(2) - Storage and Evaporation Ponds

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

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	4.93	44.39	810' x 270'	Compacted Clay
2	7.04	74.80	810' x 383.5'	Compacted Clay

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

Attachment: 7

Section 4.	Flood and Runoff	Protection	(Instructions	<b>Page 67</b> )
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Section 4. Flood and Runoff Protection (Instructions Page 67)
Is the land application site within the 100-year frequency flood level?
□ Yes ⊠ No
If yes, describe how the site will be protected from inundation.
N/A
Provide the source used to determine the 100-year frequency flood level:
USGS map and topographic survey

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

The proposed disposal area is located in an area that has slopes from 0% to 3%. The infiltration rate of the soil according to the Soil Survey of Hansford County, Texas is shown to range from 0.5 to 2.0 inches per hour. The application rate proposed will be less than the intake rate of the soil. It is proposed to have an automatic cut-off switch on the sprinkler system should there be a line break. It is proposed to construct a berm around the sprinkler system to prevent runoff and run on from minor rainfall events.

#### **Annual Cropping Plan (Instructions Page 67)** Section 5.

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. Attachment: 8

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

## Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: <u>9</u>

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

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

Table 3.0(3) - Water Well Data

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

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

Attachment: 10

### Section 7. Groundwater Quality (Instructions Page 68)

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

<b>Attachment:</b>	11

Are groundwater monitoring wells available onsite?  $\square$  Yes  $\boxtimes$  No Do you plan to install ground water monitoring wells or lysimeters around the land

application site?  $\square$  Yes  $\boxtimes$  No

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

Attachment: N/A

### Section 8. Soil Map and Soil Analyses (Instructions Page 69)

#### A. Soil map

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

Attachment: 12

#### B. Soil analyses

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

#### Attachment: 13

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

#### Table 3.0(4) - Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

## Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

$\boxtimes$	Yes	No

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

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

Table 3.0(5) - Effluent Monitoring Data

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

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

## DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

## **Section 1.** All POTWs (Instructions Page 87)

#### A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: <u>0</u>

Average Daily Flows, in MGD: <u>0</u>

Significant IUs – non-categorical:

Number of IUs: <u>0</u>

Average Daily Flows, in MGD: <u>0</u>

Other IUs:

Number of IUs: <u>0</u>

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.

N/A	
	N/A

	In the past three years, has your POTW experienced pass through (see instructions)?
	□ Yes ⊠ No
	<b>If yes</b> , 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.
	N/A
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.
	<b>If no to either question above</b> , skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.
Se	ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)
A.	Substantial modifications
	Have there been any <b>substantial modifications</b> to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?
	□ Yes □ No
·	<b>If yes</b> , identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	N/A
- 1	

C. Treatment plant pass through

		a to ICEQ for IC	riew and acco	eptance?
□ Yes □	No			
	non-substantial more		ave not beer	submitted to TCEQ,
1				
-			_	
o o	,			
nt	Concentration	MAL	Units	Date
ustrial user ir	iterruptions			
any SIU, CIU,	nterruptions or other IU caused bass throughs) at yo		, .	
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any SIU, CIU, erferences or p  Yes  ses, identify th	or other IU caused bass throughs) at yo No	ur POTW in the page each episode, inc	ast three yea	
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any SIU, CIU, erferences or p  Yes  es, identify the problems,	or other IU caused bass throughs) at yo No le industry, describe	ur POTW in the page each episode, inc	ast three yea	rs?
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any SIU, CIU, erferences or p  Yes  es, identify the problems,	or other IU caused bass throughs) at yo No le industry, describe	ur POTW in the page each episode, inc	ast three yea	rs?
	uent paramet Table 6.0(1), lis nitoring durin .0(1) – Parame	uent parameters above the MAL Table 6.0(1), list all parameters me nitoring during the last three year .0(1) – Parameters Above the MAL	went parameters above the MAL Table 6.0(1), list all parameters measured above the nitoring during the last three years. Submit an attac.  O(1) – Parameters Above the MAL	uent parameters above the MAL Table 6.0(1), list all parameters measured above the MAL in the longitude of the last three years. Submit an attachment if necessity.

**B.** Non-substantial modifications

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

	General information
	Company Name: <u>N/A</u>
	SIC Code: N/A
	Contact name: <u>N/A</u>
	Address: <u>N/A</u>
	City, State, and Zip Code: <u>N/A</u>
	Telephone number: <u>N/A</u>
	Email address: <u>N/A</u>
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
C.	Product and service information  Provide a description of the principal product(s) or services performed.
С.	
C.	Provide a description of the principal product(s) or services performed.
C.	Provide a description of the principal product(s) or services performed.
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C.	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: N/A
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: N/A  Discharge Type:  Continuous  Batch  Intermittent
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: N/A  Discharge Type: □ Continuous □ Batch □ Intermittent  Non-Process Wastewater:
	Provide a description of the principal product(s) or services performed.  N/A  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: N/A  Discharge Type:  Continuous  Batch  Intermittent

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions?
	□ Yes □ No
	Is the SIU or CIU subject to categorical pretreatment standards found in 40 CFR Parts 405-471?
	□ Yes □ No
	<b>If subject to categorical pretreatment standards</b> , indicate the applicable category and subcategory for each categorical process.
	Category: Subcategories: <u>N/A</u>
	Click or tap here to enter text. $N/A$
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
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
	<b>If yes</b> , identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.
	N/A