Administrative Package Cover Page

This file contains the following documents:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

City of Stinnett (CN601122179) proposes to operate City of Stinnett Wastewater Treatment Plant (RN102079613), a facultative lagoon and storage pond. The facility will be located at approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136, in Stinnett, Hutchinson County, Texas 79083. This permit is a new application to discharge 200,000 gallons per day of treated wastewater to 160 acres of non-public access land. Effluent will be used for irrigation of 160 acres. This permit will not authorize the discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD_5. Domestic wastewater will be treated by a facultative lagoon and a storage pond.

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

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

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

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. *<<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 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0010291002

APPLICATION. City of Stinnett, P.O. Box 909, Stinnett, Texas 79083, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0010291002 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 200,000 gallons per day via surface irrigation of 160 acres of non-public access land. The domestic wastewater treatment facility and disposal area are located approximately 3000 feet south and 3500 feet east of the intersection of State Highway 152 and State Highway 136, near the city of Stinnett, in Hutchinson County, Texas 79083. Authorization for disposal was previously permitted by expired Permit No. WQ0010291001. TCEQ received this application on December 30, 2024. The permit application will be available for viewing and copying at Stinnett City Hall, main entrance, 609 MacKenzie Avenue, Stinnett, in Hutchinson County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/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=-101.4306,35.807708&level=18

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will

become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Stinnett at the address stated above or by calling Ms. Stacie Miller, City Manager, at 806-878-2422.

Issuance Date: February 3, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Stinnett

PERMIT NUMBER (If new, leave blank): WQ00 10291001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: The City of Stinnett is constructing a new 0.2 MGD WWTP Facility. New Treatment units will include a facultative lagoon and a new storage pond. Treated effluent will be irrigated on 160 acres of existing, non-public access, land.

f. For existing permits:

Permit Number: WQ00 10291001

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

Expiration Date: October 1, 2024

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 Stinnett

(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: 601122179

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: Ivrin, Jeff

Title: Mayor Credential: Click to enter text.

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

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

N/A

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: Civil Engineer Credential: P.E.

Organization Name: Parkhill

Mailing Address: 4222 85th St City, State, Zip Code: Lubbock, TX 79423

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

B. Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: Civil Engineer Credential: P.E.

Organization Name: Parkhill

Mailing Address: 4222 85th St City, State, Zip Code: Lubbock, TX 79423

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

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

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

Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: Civil Engineer Credential: P.E.

Organization Name: Parkhill

Mailing Address: 4222 85th St City, State, Zip Code: Lubbock, TX 79423

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

D. Public Viewing Information

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

Public building name: City Hall

Location within the building: Main Entrance

Physical Address of Building: P.O. Box 909

City: Sinnett County: Hutchinson

Contact (Last Name, First Name): Miller, Stacie

Phone No.: 806.878.2422 Ext.: N/A

E. Bilingual Notice Requirements

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

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

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

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

   ☐ Yes ☒ No

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

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: Appendix B: Plain Language Summary

G. Public Involvement Plan Form

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

Attachment: Appendix C: Public Involvement Plan

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102079613

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

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

Stinnett Wastewater Treatment Plant

C. Owner of treatment facility: City of Stinnett

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

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

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

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

Attachment: N/A

E. Owner of effluent disposal site:

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

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

Attachment: N/A

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

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

N/A – TLAP only

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

☐ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

Land application area will not change as a result of the proposed amendment.

B. City nearest the disposal site: Stinnett

C. County in which the disposal site is located: Hutchinson

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

Treated effluent is pumped from storage pond to the irrigation area.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Cottonwood Creek – Southeast of disposal site

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

Appendix D: USGS Map

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Appendix A: Core Data Form; Appendix B: Plain Language Summary; Appendix C: Public Involvement Plan

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010291001

Applicant: City of Stinnett

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): Jeff Irvin

Signatory title: Mayor

Signature:_____ Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____ day of_____, 20_____.

My commission expires on the_____ day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

Appendix E: Landowner Map

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☒ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☒ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: County Appraisal District Website

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

Appendix F: Original Photographs

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

Appendix G: Buffer Zone

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

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

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

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

☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0010291001

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

   Name of Project or Site: Stinnett Wastewater Treatment Plant

   Physical Address of Project or Site: Approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136.

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.3

2-Hr Peak Flow (MGD): 0.9

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: 1977

B. Interim II Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 0.2

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

Estimated construction start date: TBD due to pending funding

Estimated waste disposal start date: Approximately 1 year after construction start date

D. Current Operating Phase

Provide the startup date of the facility: 1977

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Existing Phase: Two Imhoff Tanks in Parallel operation. Three Stabilization Ponds in Series operation. One Storage Pond. 160 acres of pastureland for irrigation. Three sludge drying beds. Final Phase: Headworks and bar screens will be added.

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)
Imhoff Tank #1 (existing)	1	20’ Dia. X 28’ Depth
Imhoff Tank #2 (existing)	1	26’ Dia. X 28’ Depth
Stabilization Pond#1 (existing)	1	3.4 acres Surface Area
Stabilization Pond#2 (existing)	1	4.6 acres Surface Area
Stabilization Pond#3 (existing)	1	4.2 acres Surface Area
Irrigation Holding Pond (existing)	1	1.4 acres – acre-ft
Sludge Drying Bed (existing)	3	25’ x 20’ x 2’
H**eadworks** (Proposed)	1	TBD
B**ar Screen** (Proposed)	1	1/**4" x 24” x 24”**

C. Process Flow Diagram

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

Attachment: Appendix H: Flow Diagram

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

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

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

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

- Latitude: 35° 48’ 29.35”
- Longitude: -101° 25’ 49.82”

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

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

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

Attachment: Appendix I: Site Map

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

City of Stinnett

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Stinnett Collection System	**City of Stinnett**	**Publicly Owned**	**1,650**

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: N/A

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

N/A

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. Other actions required by the current permit

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

☒ Yes ☐ No

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

City conducts annual soil monitoring. Liner Certification will be provided for new WWTP Ponds.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. Grease and decanted liquid disposal

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

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

Click to enter text.

E. Stormwater management

1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

4. *Existing coverage in individual permit*

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

☐ Yes ☐ No

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

Click to enter text.

5. *Zero stormwater discharge*

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

☐ Yes ☐ No

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

Click to enter text.

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

6. *Request for coverage in individual permit*

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

☐ Yes ☐ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

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.

N/A

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 50)

Is the facility in operation?

☒ Yes ☐ No

Appendix J: Pollutant Analysis

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	28.8	28.8	1	Grab	11/28/2023 @2:30pm
Total Suspended Solids, mg/l	45.0	45.0	1	Grab	11/28/2023 @2:30pm
Ammonia Nitrogen, mg/l	13.8	13.8	1	Grab	11/28/2023 @2:30pm
Nitrate Nitrogen, mg/l	0.120	0.120	1	Grab	11/28/2023 @2:30pm
Total Kjeldahl Nitrogen, mg/l	16.2	16.2	1	Grab	11/28/2023 @2:30pm
Sulfate, mg/l	21.6	21.6	1	Grab	11/28/2023 @2:30pm
Chloride, mg/l	226	226	1	Grab	11/28/2023 @2:30pm
Total Phosphorus, mg/l	1.86	1.86	1	Grab	11/28/2023 @2:30pm
pH, standard units	8.9	8.9	1	Grab	11/28/2023 @2:30pm
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A
Chlorine Residual, mg/l	<0.500	<0.500	1	Grab	11/28/2023 @2:30pm
E.coli (CFU/100ml) freshwater	>2400	>2400	1	Grab	11/28/2023 @2:30pm
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	758	758	1	Grab	11/28/2023 @2:30pm
Electrical Conductivity, µmohs/cm, †	1360	1360	1	Grab	11/28/2023 @2:30pm
Oil & Grease, mg/l	<5.88	<5.88	1	Grab	11/28/2023 @2:30pm
Alkalinity ($CaCO_3$)*, mg/l	N/A	N/A	N/A	N/A	N/A

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	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 50)

Facility Operator Name: Curtis Hampton

Facility Operator's License Classification and Level: Operator C

Facility Operator's License Number: WW0048060

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance N/A

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Storage	On-Site Owner or Operator	Not Applicable		Class B: PSRP Equivalency	Option 5: Aerobic process for 14 days at >40C

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Sludge will be stored in the ponds for the life of the plant.

D. Disposal site

Disposal site name: N/A

TCEQ permit or registration number: Click to enter text.

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

E. Transportation method

Method of transportation (truck, train, pipe, other): N/A

Name of the hauler: Click to enter text.

Hauler registration number: Click to enter text.

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Jeff Irvin

Title: Mayor

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

The City of Sinnett WWTP has reached the end of its useful life. In order to effectively treat wastewater, the city is planning construction of a new treatment facility. A major amendment to the permit is needed to replace the existing facility.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☐ No ☒ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☒ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☐ Yes ☒ No

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

Attachment: Click to enter text.

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☒ Yes ☐ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): 0.20 MGD

Average Influent Organic Strength or BOD_5 Concentration in mg/l: 250

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): 417

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

Values pulled from 30 TAC 217.32(a)(3)

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	N/A – Same Influent/No Impact	
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD_5 from all sources		

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

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 100

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 100

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

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

☒ Other: N/A - TLAP

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: Appendix K: Design Calculations

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

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

☒ Yes ☐ No

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

Click to enter text.

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

FEMA

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Appendix L: Wind Rose

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

☐ Sludge Composting N/A

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: Appendix M: Solids Management

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

N/A

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☐ No

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

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☐ No

If yes, this Worksheet is complete.

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

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

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

N/A

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

N/A

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify: N/A

C. Waterbody aesthetics

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

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

N/A

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 66)

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

Stream name: Click to enter text.

Location: Click to enter text.

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

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

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

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 66)

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

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: N/A

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Previous Phase: Native Grass and Rye Grass	160 Acres	300,000	N
Final Phase: Native Grass and Rye Grass	160 Acres	200,000	N

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
Ex. Phase: 1	1.4	11	521 X 174	Clay
Fi. Phase: 1	4.65	55.8	450 X 450	Synthetic

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

Attachment: N/A – Certification will be provided upon completion

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

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

☐ Yes ☒ No

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

N/A

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

FEMA

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

Land Application will not occur during rainfall events.

Section 5. Annual Cropping Plan (Instructions Page 68)

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

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

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

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Appendix O: Well Map & Info

- 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
159967	Stock	Y	Cased	Buffer
269025	Domestic	Y	Cased	Buffer
			Choose an item.	
			Choose an item.	

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			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: Appendix O: Well Map & Info

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: Appendix P: Groundwater Quality

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

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

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

Attachment: Click to enter text.

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

A. Soil map

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

Attachment: Appendix Q: Soil Map and Analysis

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: Appendix Q: Soil Map and Analysis

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

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
01/2022	0.0704	-	-	-	-	160
02/2022	0.0791	-	-	-	-	160
03/2022	0.0690	-	-	-	-	160
04/2022	0.0655	-	-	-	-	160
05/2022	0.0675	-	-	-	-	160
06/2022	0.0575	-	-	-	-	160
07/2022	0.0568	-	-	-	-	160
08/2022	0.0756	-	-	-	-	160
09/2022	0.0726	-	-	-	-	160
10/2022	0.0845	-	-	-	-	160
11/2022	0.0824	-	-	-	-	160
12/2022	0.0984	-	-	-	-	160
01/2023	0.0755	-	-	-	-	160
02/2023	0.0790	-	-	-	-	160
03/2023	0.0873	-	-	-	-	160
04/2023	0.0974	-	-	-	-	160
05/2023	0.0954	-	-	-	-	160
06/2023	0.0974	-	-	-	-	160

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
07/2023	0.0897	30	-	7.7	-	160
08/2023	0.0883	30	-	8.3	-	160
09/2023	0.1127	47	-	8.4	-	160
10/2023	0.1199	50	-	8.3	-	160
11/2023	0.0975	50	-	8.3	-	160
12/2023	-	45	-	8.3	-	160

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

Click to enter text.

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

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: 160

Design application frequency:

hours/day 8 **And** days/week 5

Land grade (slope):

average percent (%): 1%

maximum percent (%): 8.4%

Design application rate in acre-feet/acre/year: 3.2

Design total nitrogen loading rate, in lbs N/acre/year: 0.041565

Soil conductivity (mmhos/cm): 8

Method of application: Water Reel

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

Attachment: Appendix R: Water Balance

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: N/A

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: N/A

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

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

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

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

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

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: N/A

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

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

Slope length, in feet: Click to enter text.

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

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

N/A

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

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

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

Application area, in acres: Click to enter text.

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

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

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

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

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

Number of beds: Click to enter text.

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

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

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

N/A

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

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

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

Section 1. Administrative Information (Instructions Page 75)

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

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

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

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

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

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

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

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

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

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

D. Dosing information

Number of doses per day: Click to enter text.

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

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

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

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

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

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

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

Attachment: Click to enter text.

D. Soil sampling/testing

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

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

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

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

N/A

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

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

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

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

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

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

Table 4.0(2)E - Pesticides

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

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

N/A

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: Click to enter text.

48-hour Acute: 20

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

N/A

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

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

C. Treatment plant pass through

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

☐ Yes ☒ No

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

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.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

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

☐ Yes ☒ No

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

N/A

B. Non-substantial modifications

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

☐ Yes ☒ No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: N/A

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

N/A

C. Product and service information

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

N/A

D. 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:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: N/A

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☐ No

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

N/A

WORKSHEET 7.0

N/A

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

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

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

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

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

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

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

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

4. Surface Elevation: Click to enter text.

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

6. Injection Zone Depth: Click to enter text.

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

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

Name: Click to enter text.

Thickness: Click to enter text.

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

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

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

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

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

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

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

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

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

17. Sampling frequency: Click to enter text.

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

Section 5. Site History

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

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

Class V Injection Well Designations

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

Appendix A

Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 601122179		**RN 102079613**

SECTION II: Customer Information

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

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

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

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

City of Stinnett

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

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

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

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

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

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

P.O. Box 909

City	Stinnett	**State**	TX	**ZIP**	79083	**ZIP + 4**	

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

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(806) 878-2422		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

City of Stinnett Wastewater Treatment Plant

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

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

25. Description to Physical Location:	approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136				
26. Nearest City			**State**	**Nearest ZIP Code**	
Stinnett			TX	79083	

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

27. Latitude (N) In Decimal:	35.807708		**28. Longitude (W) In Decimal:**	-101.430633	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
39	48	27.75	-101	25	50.28

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

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

Domestic Wastewater Treatment

34. Mailing Address:	**P.O. Box 909**							
	City	**Stinnett**	**State**	**TX**	**ZIP**	**79083**	**ZIP + 4**	
35. E-Mail Address:	**smiller@cityofstinnett.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(806) 878-2422		( ) -

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

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010291001			

SECTION IV: Preparer Information

40. Name:	Paul Krueger, P.E.	**41. Title:**	Civil Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(806 **)** 473-3715		**( )** -	PKrueger@Parkhill.com

SECTION V: Authorized Signature

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

Company:	City of Stinnett	**Job Title:**	City Manager	
Name *(In Print):*	Stacie Miller		**Phone:**	**(** 806 **)** 878- **2422**
Signature:			**Date:**	

Appendix B

Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

City of Stinnett (CN601122179) proposes to operate City of Stinnett Wastewater Treatment Plant (RN102079613), a facultative lagoon and storage pond. The facility will be located at approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136, in Stinnett, Hutchinson County, Texas 79083. This permit is a major amendment with renewal to discharge 200,000 gallons per day of treated wastewater. Effluent will be used for irrigation of 160 acres. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD_5. Domestic wastewater will be treated by a facultative lagoon and a storage pond.

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

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

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

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. *<<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 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

INSTRUCTIONS

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

Questions or comments concerning this form may be directed to the Water Quality Division’s Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example

Individual Industrial Wastewater Application

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

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

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

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

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

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

Appendix C

Public Involvement Plan

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☐ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

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

☒ Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

☒ Texas Land Application Permit (TLAP)

☐ State Only Concentrated Animal Feeding Operation (CAFO)

☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

The wastewater plant has been operating at approximately 24% of the permitted flow for several years. Using TCEQ's governing value of 75 GPCD and projected population of 2,077, yields an average flow rate of 155,755 GPD. This accounts for the 75GPCD. A proposed flow of 0.20 MGD shall be sufficient for the next 50 years. The Wastewater Treatment Plant is being moved to approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136. The Wastewater Treatment Plant will be downsized to specified value. For the proposed wastewater treatment plant influent flow will be sent from a lift station where it will be screened and sent to a facilitative lagoon for biological treatment. Once this treatment has taken place water will be sent to a storage pond where it will be land applied on 160 acres of non-public access land.

Section 5. Community and Demographic Information

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

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

Stinnett

(City)

Hutchinson

(County)

N/A

(Census Tract)

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

☐ City ☒ County ☐ Census Tract

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

85.9%

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

$30,038

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

Minority Population: 8.5%. White: 91.5%. Black or African America: 3.0%. American Indian and Alaskan Native: 2.2%. Asian: 0.7%. Native Hawaiian and Other Pacific Islander: 0.1%. Two or more Races: 2.6%. Hispanic or Latino: 25.3%.

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

15.2%

(e) Languages commonly spoken in area by percentage

English: 84.8%
Language other than english: 15.2%

(f) Community and/or Stakeholder Groups

Hutchinson County United Way

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☒ Yes ☐ No

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

☐ Yes ☒ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

Section 7. Voluntary Submittal

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

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

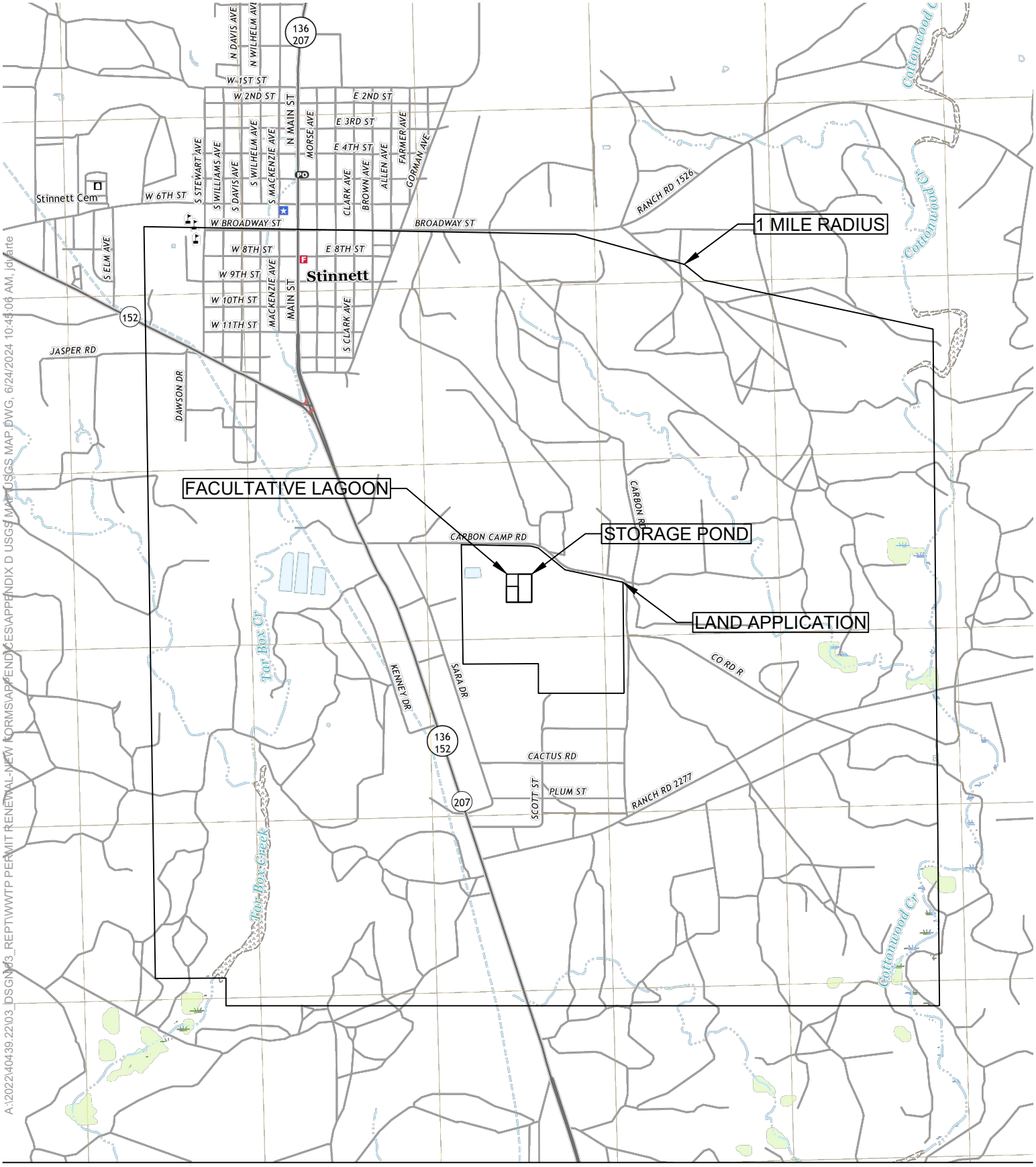
☒ Yes ☐ No

What types of notice will be provided?

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

Appendix D

USGS Map



A:\2022\40439.22\03_DSGN\03_REPT\WWTP PERMIT RENEWAL-NEW FORMS\APPENDICES\APPENDIX D USGS MAP\USGS MAP.DWG, 6/24/2024 10:44:06 AM, jdeArte

City of Stinnett Wastewater Treatment Plant Renewal

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

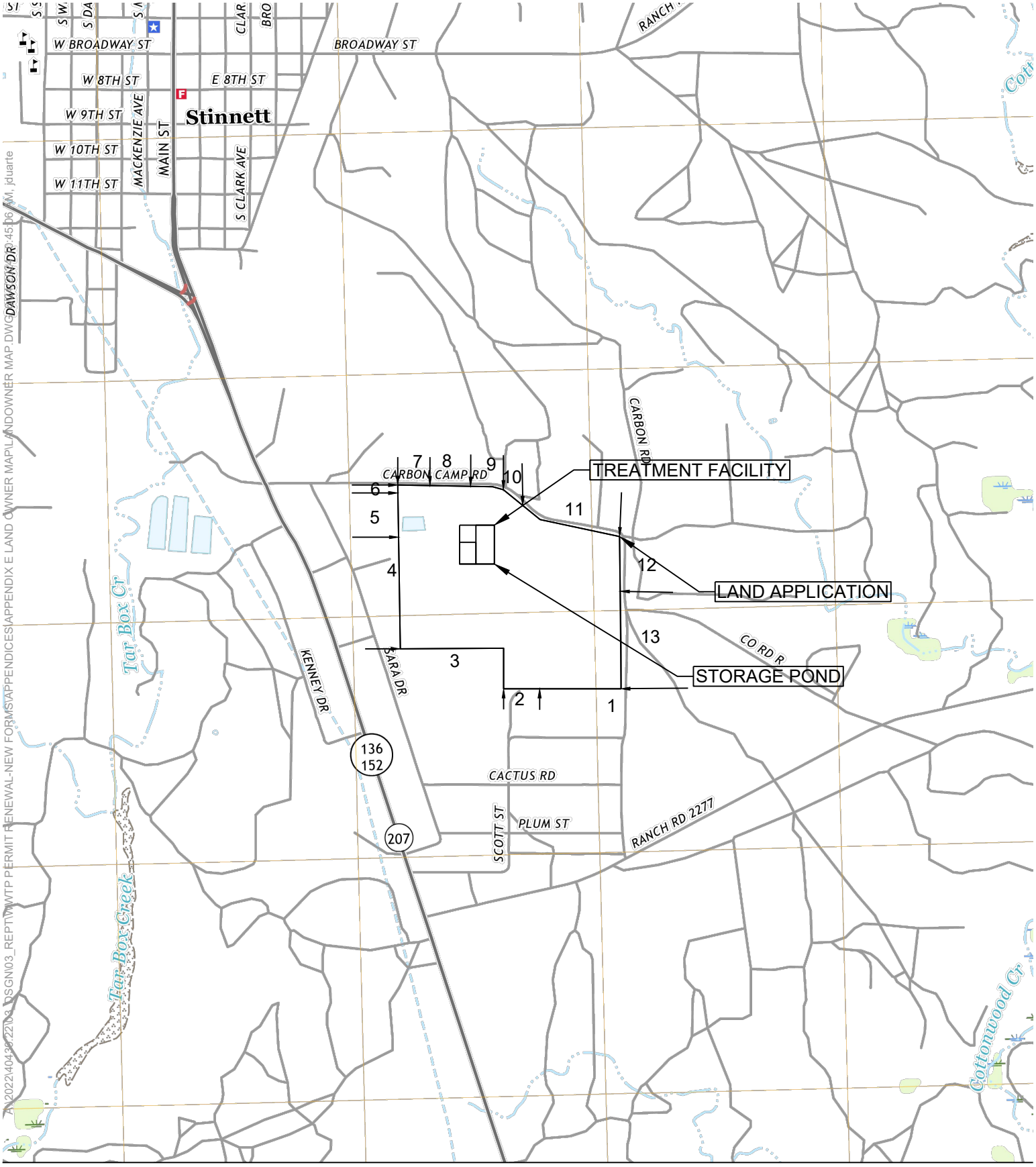
Parkhill
Parkhill.com

USGS Map

Issue:	Renewal
Date:	07/10/2024
Project No:	40439.22
Sheet:	1 OF 1

Appendix E

Land Owner Map



City of Stinnett Wastewater Treatment Plant Renewal

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

Parkhill.com

Landowner Map

Issue:	Renewal
Date:	07/10/2024
Project No:	40439.22
Sheet:	1 OF 1

City of Stinnett, Texas

Affected Landowner's Cross Reference List and Adjoining Properties

1. JODY NOLAN
   PO BOX 1161
   STINNETT TX 79083

2. JODY NOLAN AND LARRY DIFFIELD
   PO BOX 1161
   STINNETT TX 79083

3. LANTELME DEAN R AND RHONDA G
   119 SCHOENHALS LN
   FRITCH TX 79036

4. LANTELME DEAN R AND RHONDA G
   119 SCHOENHALS LN
   FRITCH TX 79036

5. PSP CISD ET AL
   SHERRIF SALE PO BOX 3440
   STINNETT TX 79083

6. DAVID AND DEBBIE WILSON
   PO BOX 711
   STINNETT TX 79083

7. FRANCISCO BARRAZA
   414 ROMERO ST
   FRITCH TX 79036

8. CHRISTOPHER AND RACHEL BOGNER
   PO BOX 801
   STINNETT TX 79083

9. CHRISTOPHER AND RACHEL BOGNER
   PO BOX 801
   STINNETT TX 79083

10. SANDRA HEFNER
    PO BOX 3388
    STINNETT TX 79083

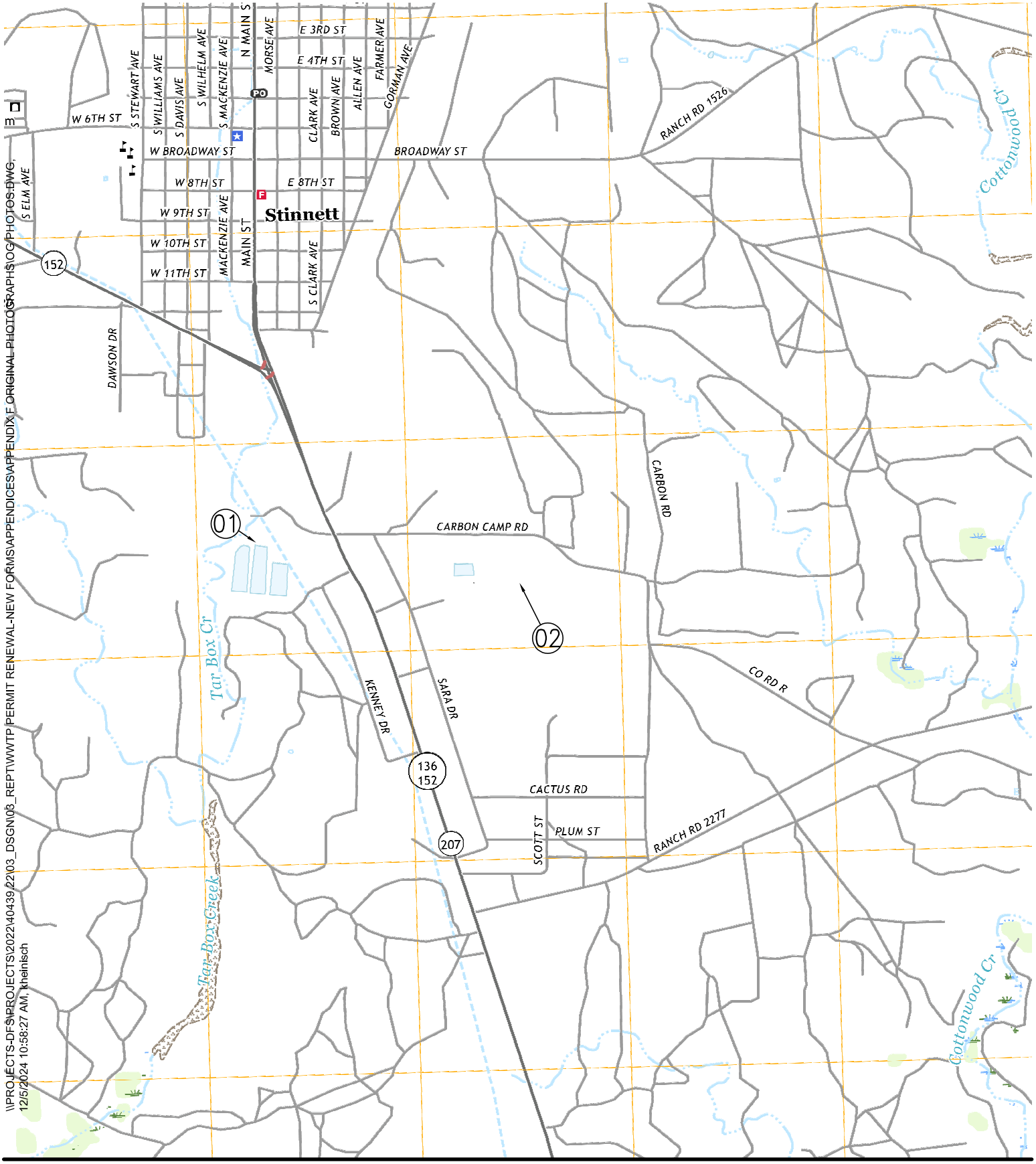
11. SANDRA AND KEITH HEFNER
    PO BOX 3388
    STINNETT TX 79083

12. TYM ENERGY
    UNKNOWN

13. BROWN ROBERT ALFRED AND TALLY G
    PO BOX 1196
    STINNETT TX 79083

Appendix F

Original Photographs



\\PROJECTS-DFS\PROJECTS\2022\40439.22\03_DSGN\08_REPT\WWTP PERMIT RENEWAL-NEW FORMS\APPENDICES\APPENDIX F ORIGINAL PHOTOGRAPHS\OG PHOTOS.DWG,
12/5/2024 10:58:27 AM, kheinisch

City of Stinnett Wastewater Treatment Plant Renewal

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

Parkhill.com

Original Photographs

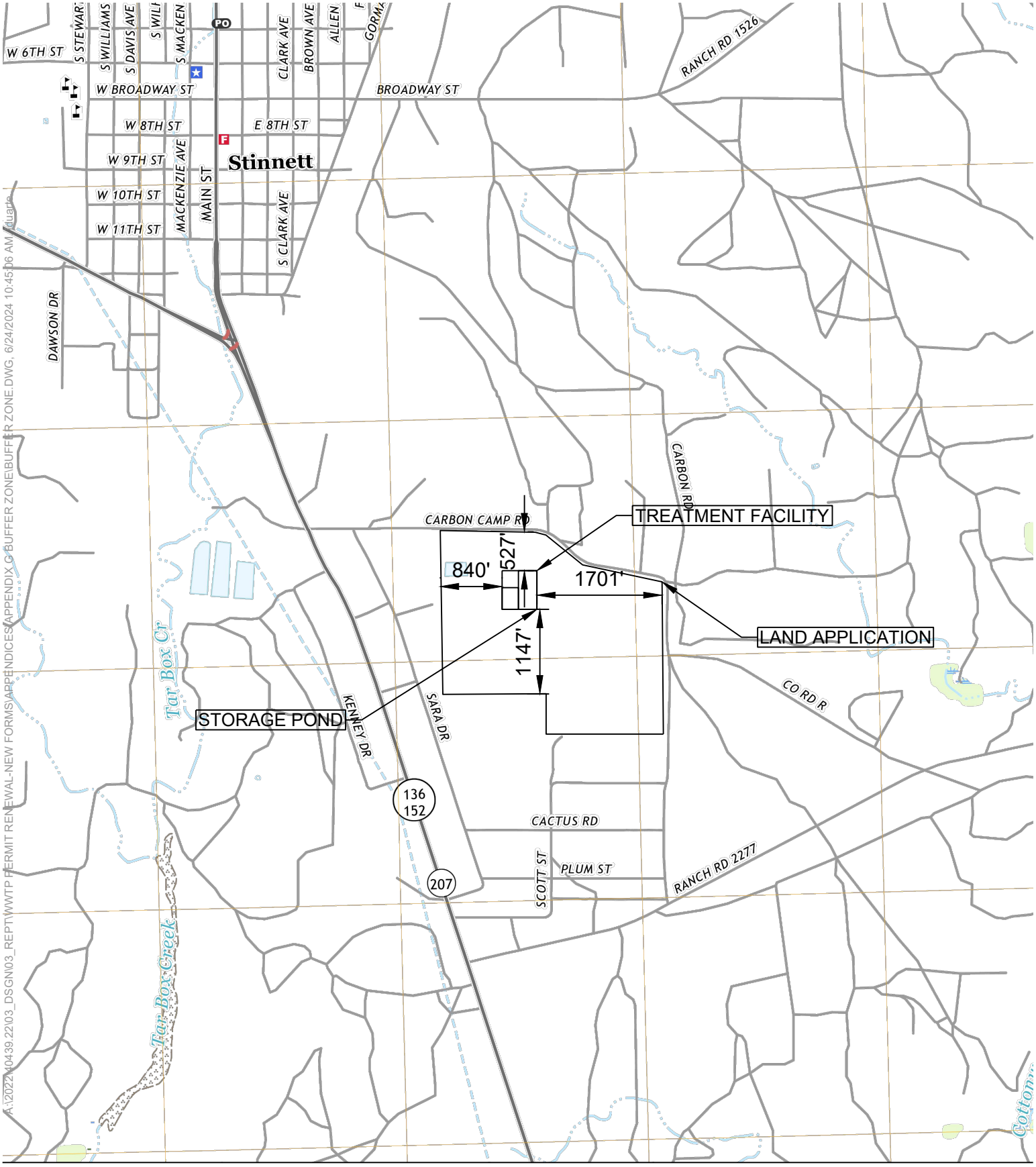
Issue:	Renewal
Date:	07/10/2024
Project No:	40439.22
Sheet:	1 OF 1

Photograph 01 – Existing Effluent Irrigation Site

Photograph 02 – New Treatment Unit Location

Appendix G

Buffer Zone



City of Stinnett Wastewater Treatment Plant Renewal

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

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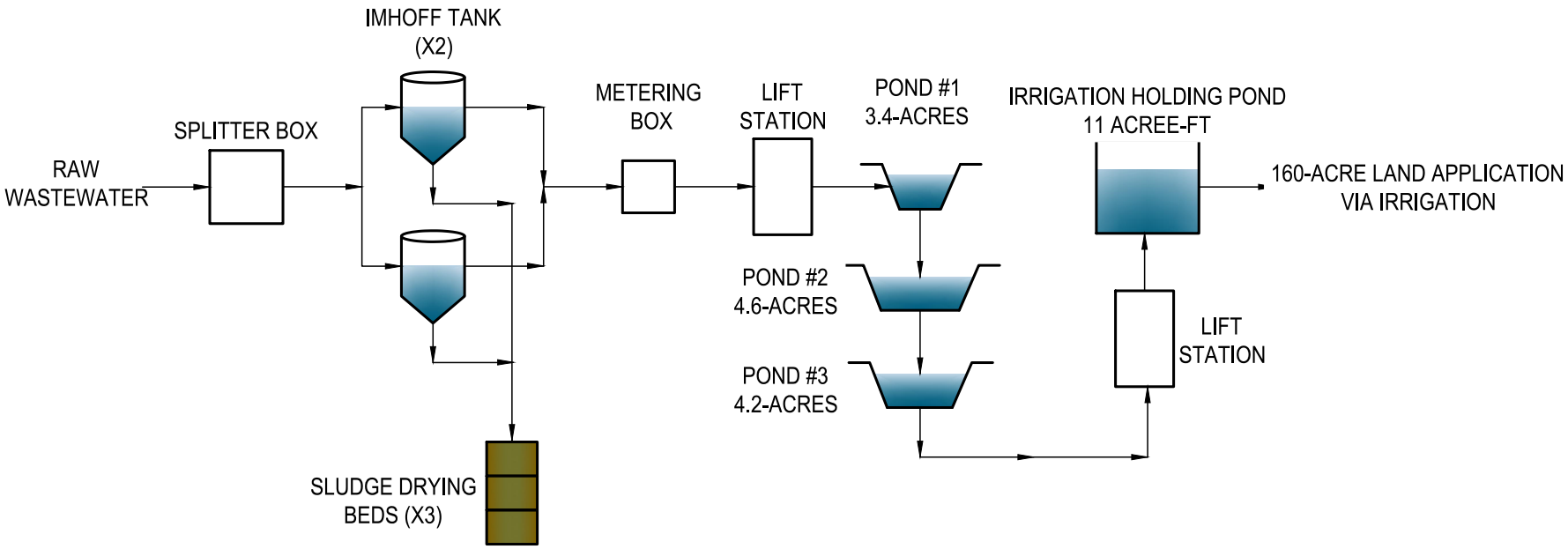
Buffer Zone

Issue:	Renewal
Date:	07/09/2024
Project No:	40439.22
Sheet:	1 OF 1

Appendix H

Flow Diagram



City of Stinnett Wastewater Treatment Plant

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill
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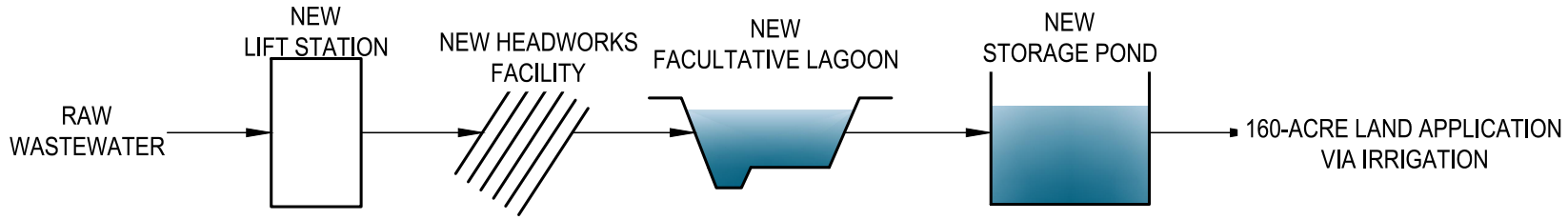
Flow Diagram Existing

Issue:	Renewal
Date:	07/10/2023
Project No:	40439.22
Sheet:	1 OF 1



City of Stinnett Wastewater Treatment Plant

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

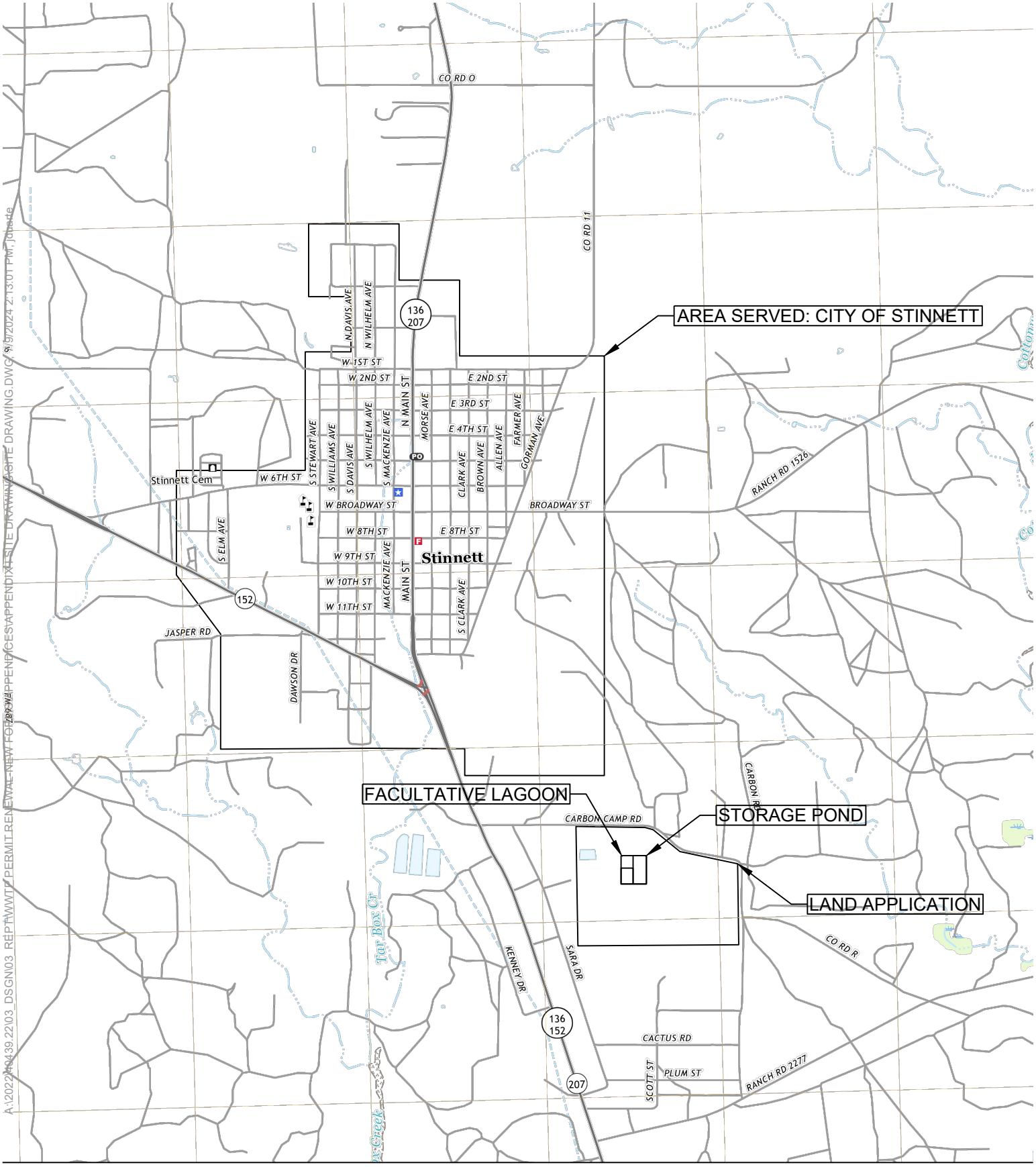
Parkhill
Parkhill.com

Flow Diagram Proposed

Issue:	Renewal
Date:	07/10/2023
Project No:	40439.22
Sheet:	1 OF 1

Appendix I

Site Drawing



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City of Stinnett Wastewater Treatment Plant Renewal

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

Parkhill.com

Site Drawing

Issue:	Renewal
Date:	07/10/2024
Project No:	40439.22
Sheet:	1 OF 1

Appendix J

Pollutant Analysis

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Paul K Krueger
Parkhill Smith & Cooper Inc.
4222 85th Street
Lubbock, Texas 79423

Generated 12/17/2023 8:18:23 PM

JOB DESCRIPTION

Stinnett WWTP

JOB NUMBER

820-11094-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

See page two for job notes and contact information.

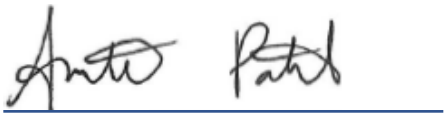
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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12/17/2023 8:18:23 PM

Authorized for release by
Anita Patel, Project Manager
Anita.Patel@et.eurofinsus.com
(832)776-2275

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Definitions/Glossary

Client: Parkhill Smith & Cooper Inc. Job ID: 820-11094-1
Project/Site: Stinnett WWTP

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Biology

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 820-11094-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative
820-11094-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/29/2023 8:50 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 4500_CL_G: The following sample was diluted due to the nature of the sample matrix: WWTP outfall (820-11094-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Biology
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: Stinnett WWTP

Job ID: 820-11094-1

Client Sample ID: WWTP outfall

Lab Sample ID: 820-11094-1

Date Collected: 11/28/23 14:30

Matrix: Water

Date Received: 11/29/23 08:50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		0.500		mg/L			12/12/23 03:10	1
Sulfate	**21.6**		0.500		mg/L			12/12/23 03:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<5.88	U	5.88		mg/L			12/17/23 07:15	1
SGT-HEM (1664B)	<5.88	U	5.88		mg/L			12/17/23 07:15	1
Ammonia as N (EPA 350.1)	**13.8**		1.00		mg/L			12/12/23 11:30	10
Nitrogen, Kjeldahl (EPA 351.2)	**16.2**		1.43		mg/L		12/12/23 20:50	12/13/23 14:51	7.143
Nitrate Nitrite as N (EPA 353.2)	**0.120**		0.100		mg/L			12/01/23 21:55	1
Total Phosphorus as P (EPA 365.1)	**1.86**		0.100		mg/L		12/08/23 16:34	12/11/23 13:09	5
Specific Conductance (SM 2510B)	**1360**		10.0		umho/cm @ 25C			12/06/23 10:49	1
Total Dissolved Solids (SM 2540C)	**758**		10.0		mg/L			12/04/23 09:41	1
Total Suspended Solids (SM 2540D)	**45.0**		20.0		mg/L			12/01/23 10:20	1
Chlorine, Total Residual (SM 4500 Cl G)	<0.500	U HF	0.500		mg/L			12/01/23 10:55	10
pH (SM 4500 H+ B)	**8.9**	**HF**			SU			12/02/23 13:38	1
Temperature (SM 4500 H+ B)	**16.7**	**HF**			Degrees C			12/02/23 13:38	1
Carbonaceous Biochemical Oxygen Demand (SM5210B CBOD)	**28.8**		6.00		mg/L		11/30/23 12:00	11/30/23 14:25	1

Method: SM 9223B - Coliforms, Total, and E.Coll (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	**>2400**	**H H3**	1.0		MPN/100mL			11/29/23 16:45	1
Coliform, Total	**>2400**	**H H3**	1.0		MPN/100mL			11/29/23 16:45	1

Client: Parkhill Smith & Cooper Inc.
Project/Site: Stinnett WWTP

Job ID: 820-11094-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-134603/44
Matrix: Water
Analysis Batch: 134603

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			12/12/23 01:54	1
Sulfate	<0.500	U	0.500		mg/L			12/12/23 01:54	1

Lab Sample ID: LCS 860-134603/45
Matrix: Water
Analysis Batch: 134603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.252		mg/L		93	90 - 110
Sulfate	10.0	9.464		mg/L		95	90 - 110

Lab Sample ID: LCSD 860-134603/46
Matrix: Water
Analysis Batch: 134603

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.238		mg/L		92	90 - 110	0	20
Sulfate	10.0	9.454		mg/L		95	90 - 110	0	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 860-135532/1
Matrix: Water
Analysis Batch: 135532

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	<5.00	U	5.00		mg/L			12/17/23 07:15	1
SGT-HEM	<5.00	U	5.00		mg/L			12/17/23 07:15	1

Lab Sample ID: LCS 860-135532/2
Matrix: Water
Analysis Batch: 135532

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM	40.0	41.20		mg/L		103	78 - 114
SGT-HEM	20.0	24.20		mg/L		121	64 - 132

Lab Sample ID: LCSD 860-135532/3
Matrix: Water
Analysis Batch: 135532

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM	40.0	42.40		mg/L		106	78 - 114	3	18
SGT-HEM	20.0	24.00		mg/L		120	64 - 132	1	18

Client: Parkhill Smith & Cooper Inc.
Project/Site: Stinnett WWTP

Job ID: 820-11094-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 860-135099/16
Matrix: Water
Analysis Batch: 135099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.100	U	0.100		mg/L			12/12/23 10:11	1

Lab Sample ID: LCS 860-135099/17
Matrix: Water
Analysis Batch: 135099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	1.00	1.094		mg/L		109	90 - 110

Lab Sample ID: LCSD 860-135099/18
Matrix: Water
Analysis Batch: 135099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	1.00	1.094		mg/L		109	90 - 110	0	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-134896/4-A
Matrix: Water
Analysis Batch: 135046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134896

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.200	U	0.200		mg/L		12/12/23 20:50	12/13/23 14:13	1

Lab Sample ID: LCS 860-134896/33-A
Matrix: Water
Analysis Batch: 135046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134896

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	2.00	1.968		mg/L		98	90 - 110

Lab Sample ID: LCSD 860-134896/34-A
Matrix: Water
Analysis Batch: 135046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134896

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	2.00	1.950		mg/L		98	90 - 110	1	20

Lab Sample ID: LLCS 860-134896/5-A
Matrix: Water
Analysis Batch: 135046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134896

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	0.200	0.1189	J	mg/L		59	50 - 150

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 860-133464/10
Matrix: Water
Analysis Batch: 133464

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100	U	0.100		mg/L			12/01/23 21:04	1

Lab Sample ID: LCS 860-133464/11
Matrix: Water
Analysis Batch: 133464

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N			1.00	1.005		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-133464/12
Matrix: Water
Analysis Batch: 133464

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	1.028		mg/L		103	90 - 110	2	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 860-134428/46-A
Matrix: Water
Analysis Batch: 134611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.417	U	0.417		mg/L		12/08/23 16:34	12/11/23 12:36	1

Lab Sample ID: MB 860-134428/4-A
Matrix: Water
Analysis Batch: 134611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.0200	U	0.0200		mg/L		12/08/23 16:34	12/11/23 11:49	1

Lab Sample ID: LCS 860-134428/47-A
Matrix: Water
Analysis Batch: 134611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134428

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Phosphorus as P			5.10	5.176		mg/L		101	90 - 110		

Lab Sample ID: LCSD 860-134428/48-A
Matrix: Water
Analysis Batch: 134611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134428

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P			5.21	5.229		mg/L		100	90 - 110	1	20

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LLCS 860-134428/7-A
Matrix: Water
Analysis Batch: 134611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134428

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Phosphorus as P			0.0200	0.02370		mg/L		119	70 - 130		

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-133978/2
Matrix: Water
Analysis Batch: 133978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<10.0	U	10.0		umho/cm @ 25C			12/06/23 10:49	1

Lab Sample ID: 820-11094-1 DU
Matrix: Water
Analysis Batch: 133978

Client Sample ID: WWTP outfall
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	1360			1347		umho/cm @ 25C				1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-133549/1
Matrix: Water
Analysis Batch: 133549

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00		mg/L			12/04/23 09:41	1

Lab Sample ID: LCS 860-133549/2
Matrix: Water
Analysis Batch: 133549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1001		mg/L		100	80 - 120		

Lab Sample ID: LCSD 860-133549/3
Matrix: Water
Analysis Batch: 133549

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1006		mg/L		101	80 - 120	0	10

Lab Sample ID: 820-11094-1 DU
Matrix: Water
Analysis Batch: 133549

Client Sample ID: WWTP outfall
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	758			768.0		mg/L				1	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 860-133306/1
Matrix: Water
Analysis Batch: 133306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.00	U	4.00		mg/L			12/01/23 10:20	1

Lab Sample ID: LCS 860-133306/2
Matrix: Water
Analysis Batch: 133306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	99.00		mg/L		99	80 - 120		

Lab Sample ID: LCSD 860-133306/3
Matrix: Water
Analysis Batch: 133306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids			100	102.0		mg/L		102	80 - 120	3	10

Lab Sample ID: 820-11094-1 DU
Matrix: Water
Analysis Batch: 133306

Client Sample ID: WWTP outfall
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	45.0			46.50		mg/L				3	10

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 860-133318/3
Matrix: Water
Analysis Batch: 133318

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	<0.0500	U	0.0500		mg/L			12/01/23 10:55	1

Lab Sample ID: LCS 860-133318/4
Matrix: Water
Analysis Batch: 133318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorine, Total Residual			0.250	0.2508		mg/L		100	85 - 115		

Lab Sample ID: LCSD 860-133318/5
Matrix: Water
Analysis Batch: 133318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorine, Total Residual			0.250	0.2444		mg/L		98	85 - 115	3	20

Client: Parkhill Smith & Cooper Inc.
Project/Site: Stinnett WWTP

Job ID: 820-11094-1

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: SCB 860-134266/2
Matrix: Water
Analysis Batch: 134266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	0.8460		0.0000020 0		mg/L			11/30/23 14:34	1

Lab Sample ID: USB 860-134266/1
Matrix: Water
Analysis Batch: 134266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	0.1800		0.0000020 0		mg/L			11/30/23 14:31	1

Lab Sample ID: LCS 860-134266/3
Matrix: Water
Analysis Batch: 134266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	174.5		mg/L		88	85 - 115

HPLC/IC

Analysis Batch: 134603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	300.0	
MB 860-134603/44	Method Blank	Total/NA	Water	300.0	
LCS 860-134603/45	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-134603/46	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 133193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	BOD Prep	

Analysis Batch: 133306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	SM 2540D	
MB 860-133306/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 860-133306/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 860-133306/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
820-11094-1 DU	WWTP outfall	Total/NA	Water	SM 2540D	

Analysis Batch: 133318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	SM 4500 Cl G	
MB 860-133318/3	Method Blank	Total/NA	Water	SM 4500 Cl G	
LCS 860-133318/4	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	
LCSD 860-133318/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl G	

Analysis Batch: 133444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 133464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	353.2	
MB 860-133464/10	Method Blank	Total/NA	Water	353.2	
LCS 860-133464/11	Lab Control Sample	Total/NA	Water	353.2	
LCSD 860-133464/12	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 133549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	SM 2540C	
MB 860-133549/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-133549/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-133549/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-133549/26	Lab Control Sample	Total/NA	Water	SM 2540C	
820-11094-1 DU	WWTP outfall	Total/NA	Water	SM 2540C	

Analysis Batch: 133978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	SM 2510B	
MB 860-133978/2	Method Blank	Total/NA	Water	SM 2510B	
LCS 860-133978/3	Lab Control Sample	Total/NA	Water	SM 2510B	

General Chemistry (Continued)

Analysis Batch: 133978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-133978/4	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
820-11094-1 DU	WWTP outfall	Total/NA	Water	SM 2510B	

Analysis Batch: 134266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	SM5210B CBOD	133193
SCB 860-134266/2	Method Blank	Total/NA	Water	SM5210B CBOD	
USB 860-134266/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 860-134266/3	Lab Control Sample	Total/NA	Water	SM5210B CBOD	

Prep Batch: 134428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	365.2/365.3/365	
MB 860-134428/46-A	Method Blank	Total/NA	Water	365.2/365.3/365	
MB 860-134428/4-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 860-134428/47-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 860-134428/48-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
LLCS 860-134428/7-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 134611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	365.1	134428
MB 860-134428/46-A	Method Blank	Total/NA	Water	365.1	134428
MB 860-134428/4-A	Method Blank	Total/NA	Water	365.1	134428
LCS 860-134428/47-A	Lab Control Sample	Total/NA	Water	365.1	134428
LCSD 860-134428/48-A	Lab Control Sample Dup	Total/NA	Water	365.1	134428
LLCS 860-134428/7-A	Lab Control Sample	Total/NA	Water	365.1	134428

Prep Batch: 134896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	351.2	
MB 860-134896/4-A	Method Blank	Total/NA	Water	351.2	
LCS 860-134896/33-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 860-134896/34-A	Lab Control Sample Dup	Total/NA	Water	351.2	
LLCS 860-134896/5-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 135046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	351.2	134896
MB 860-134896/4-A	Method Blank	Total/NA	Water	351.2	134896
LCS 860-134896/33-A	Lab Control Sample	Total/NA	Water	351.2	134896
LCSD 860-134896/34-A	Lab Control Sample Dup	Total/NA	Water	351.2	134896
LLCS 860-134896/5-A	Lab Control Sample	Total/NA	Water	351.2	134896

Analysis Batch: 135099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	350.1	
MB 860-135099/16	Method Blank	Total/NA	Water	350.1	
LCS 860-135099/17	Lab Control Sample	Total/NA	Water	350.1	
LCSD 860-135099/18	Lab Control Sample Dup	Total/NA	Water	350.1	

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Job ID: 820-11094-1
Project/Site: Stinnett WWTP

General Chemistry

Analysis Batch: 135532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	1664B	
MB 860-135532/1	Method Blank	Total/NA	Water	1664B	
LCS 860-135532/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 860-135532/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Biology

Analysis Batch: 2196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11094-1	WWTP outfall	Total/NA	Water	9223B	

Lab Chronicle

Client: Parkhill Smith & Cooper Inc.
Project/Site: Stinnett WWTP

Job ID: 820-11094-1

Client Sample ID: WWTP outfall
Date Collected: 11/28/23 14:30
Date Received: 11/29/23 08:50

Lab Sample ID: 820-11094-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			134603	12/12/23 03:10	WP	EET HOU
Total/NA	Analysis	1664B		1	850 mL	1000 mL	135532	12/17/23 07:15	TB	EET HOU
Total/NA	Analysis	350.1		10	10 mL	10 mL	135099	12/12/23 11:30	ADL	EET HOU
Total/NA	Prep	351.2			20 mL	20 mL	134896	12/12/23 20:50	LD	EET HOU
Total/NA	Analysis	351.2		7.143			135046	12/13/23 14:51	AA	EET HOU
Total/NA	Analysis	353.2		1	10 mL	10 mL	133464	12/01/23 21:55	LD	EET HOU
Total/NA	Prep	365.2/365.3/365			10 mL	10 mL	134428	12/08/23 16:34	LD	EET HOU
Total/NA	Analysis	365.1		5			134611	12/11/23 13:09	AA	EET HOU
Total/NA	Analysis	SM 2510B		1			133978	12/06/23 10:49	KEG	EET HOU
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	133549	12/04/23 09:41	SA	EET HOU
Total/NA	Analysis	SM 2540D		1	200 mL	1000 mL	133306	12/01/23 10:20	SA	EET HOU
Total/NA	Analysis	SM 4500 Cl G		10	10 mL	10 mL	133318	12/01/23 10:55	SCI	EET HOU
Total/NA	Analysis	SM 4500 H+ B		1			133444	12/02/23 13:38	KEG	EET HOU
Total/NA	Prep	BOD Prep					133193	11/30/23 12:00	ALL	EET HOU
Total/NA	Analysis	SM5210B CBOD		1	100 mL	300 mL	134266	11/30/23 14:25	ALL	EET HOU
Total/NA	Analysis	9223B		1	100 mL	100 mL	2196	11/29/23 16:45	CT	EET LUB

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET LUB = Eurofins Lubbock, 6701 Aberdeen Ave., Suite 8, Lubbock, TX 79424, TEL (806)794-1296

Accreditation/Certification Summary

Client: Parkhill Smith & Cooper Inc. Job ID: 820-11094-1
Project/Site: Stinnett WWTP

Laboratory: Eurofins Lubbock

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704219-23-30	03-31-24

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Parkhill Smith & Cooper Inc.
Job ID: 820-11094-1
Project/Site: Stinnett WWTP

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
1664B	HEM and SGT-HEM	1664B	EET HOU
350.1	Nitrogen, Ammonia	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET HOU
365.1	Phosphorus, Total	EPA	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 2540D	Solids, Total Suspended (TSS)	SM	EET HOU
SM 4500 Cl G	Chlorine, Residual	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	EET HOU
9223B	Coliforms, Total, and E.Coll (Colilert - Quanti Tray)	SM	EET LUB
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
365.2/365.3/365	Phosphorus, Total	EPA	EET HOU
BOD Prep	Preparation, BOD	SM	EET HOU

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET LUB = Eurofins Lubbock, 6701 Aberdeen Ave., Suite 8, Lubbock, TX 79424, TEL (806)794-1296

Sample Summary

Client: Parkhill Smith & Cooper Inc.
Job ID: 820-11094-1
Project/Site: Stinnett WWTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-11094-1	WWTP outfall	Water	11/28/23 14:30	11/29/23 08:50

Loc: 820
11094

s Lubbock
een Ave. Suite 8
'X 79424
) 794-1296

Chain of Custody Record

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ormation	Sampler:	Lab PM: Patel, Anita	Carrier Tracking No(s):	COC No: 820-7193-134.1
Jackson Vauthier	Phone:	E-Mail: Anita.Patel@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Parkhill Smith & Cooper Inc.	PWSID:	Analysis Requested		Job #:

Address: 4222 85th Street	Due Date Requested:
City: Lubbock	TAT Requested (days):
State, Zip: TX, 79423	Compliance Project: Δ Yes Δ No
Phone:	PO #: Purchase Order not required
Email: iduarte@parkhill.com	WO #:
Project Name: Stinnett WWTP	Project #: 82001120
Site:	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9223B_CIQT18_8H - E. Coli and Total Coliform	1664B_NP - HEM & SGT-HEM Oil and Grease	Ammonia 350.1, TKN 351.2, Nitrate-Nitrite 353.2, Total Phosphorus 365.1	Specific Conductivity 2510B, Sulfate/Chloride 300_ORGFM_28D, Chlorine Residual 4500_CL_G, pH	2540D - TSS	2540C_Calcd - Solids, Total Dissolved (TDS)	SM5210B_CBODCal - CBOD	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	R	A	S	N	N	N	N		
WW TP Outfall	11/28/2023	2:30pm		Water											

820-11094 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Jordan D	Date/Time: 8:5am/11/29/2023	Company	Received by: Teddy Randell Lee	Date/Time: 11/29/23 0850	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6/1.5°C IR-4 (-0.1)

Ver: 01/16/2019

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12/17/2023

Eurofins Lubbock
6701 Aberdeen Ave. Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record

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12/17/2023

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Patel, Anita	Carrier Tracking No(s):	COC No: 820-8571 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Anita.Patel@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 820-11094-1
Address: 4145 Greenbriar Dr	Due Date Requested: 12/12/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: WWTP General	Project #: 82001120			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM5210B_CBODCal/BOD_Prep CBOD	2540D	350.1/ Ammonia Nitrogen	353.2/ Nitrogen, Nitrate-Nitrite	351.2/351.2_Prep Nitrogen Total Kjeldahl	300_ORGFM_28D/ Cl & SO4	365.1/365_Prep Total Phosphorus as P	SM4500_H+/ pH and Temperature	4500_CL_G/ Chlorine Residual	2540C_Calcd/ Solids, Total Dissolved (TDS)	2510B/ Specific Conductance	1664B_NP/ HEM & SGT-HEM	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
WWTP outfall (820-11094-1)	11/28/23	14:30 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	7	

emp. C/F -0.0 1.3 IR ID:HOU-369
Corrected Temp. 1.3

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 11/30/2023 9.48	Company EX	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Parkhill Smith & Cooper Inc.

Job Number: 820-11094-1

Login Number: 11094

List Source: Eurofins Lubbock

List Number: 1

Creator: Triplett, Colby

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Parkhill Smith & Cooper Inc.

Job Number: 820-11094-1

Login Number: 11094
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 11/30/23 12:16 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Appendix K

Design Calculations

Storage Pond Calculations
Stinnett
7/12/2023

Cut and Fill Calc's

		Inside top of Dike	Outside top of dike	At existing ground		
Surface Dimensions	Length	533	557	482	Acre-ft	Million Gallons
	Width	186	240	135	**11.00**	**5.35**

Side Slopes	3
Top of Dike (ft)	12

Water Surface Dimensions

Length	521	Connected to FL Calcs
Width	174	
	1.40	Acres

Height of dike Above Ground Surface

Fill:

X (ft)	8.5
Area (ft^2)	318.75
Length (ft)	1486.551761
Volume (ft^3)	**473,838**
Volume (cy)	**17,549.57**

Cut:

		Cut + Freeboard	**Actual Cut**
Freeboard (ft)	2		
Deep (ft)	10	12	3.5
Volume (ft^3)	**321,281**	**205,742**	
Volume (cy)	**11,899.29**	**7,620.08**	
CUT: FILL 1.3	0.68	0.43	

Pond Liner

To inside top of dike

Volume (ft^2) :	Bottom	Sides	Sum
Deep End	52,522.55	49,124.79	101,647.34
		Total (ft^2)	**101,647.34**
		Total (sy)	**11,294.15**

Slope Protection

15.81 feet down the slope

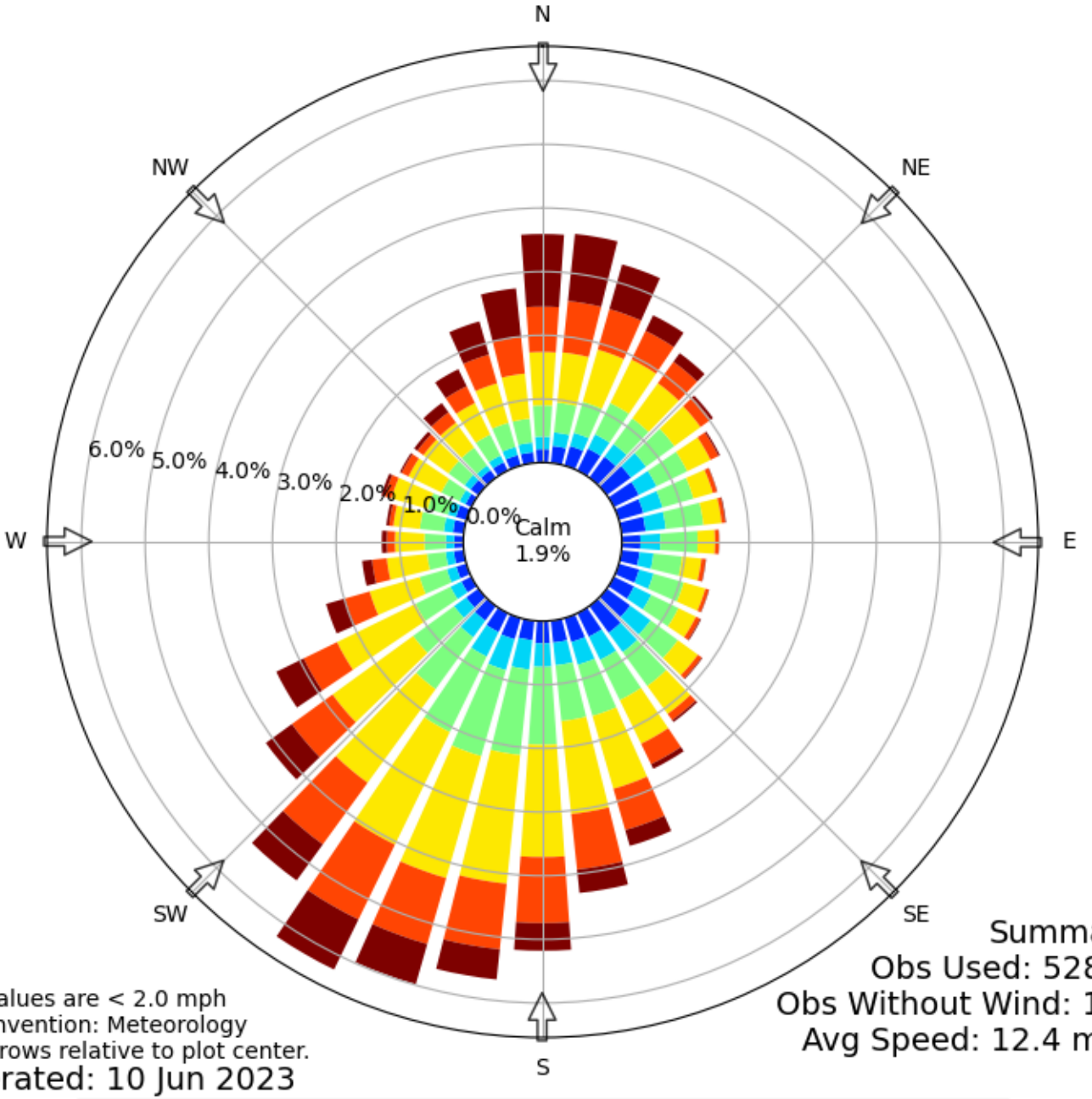
Height	5
Length	15
Area (ft^2)	**21,796.82**
Area (sy)	**2,421.87**

Net Pond Liner		**Slope Protection**	
Area (ft^2)	**79,850.52**	**Area (ft^2)**	**21,796.82**
Area (sy)	**8,872.28**	**Area (sy)**	**2,421.87**

Appendix L

Wind Rose

Windrose Plot for [STNT2] Stinnett 1NNW
Obs Between: 25 Apr 2017 02:00 PM - 09 Jun 2023 06:00 PM America/Chicago



Summary
Obs Used: 52801
Obs Without Wind: 146
Avg Speed: 12.4 mph

Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 10 Jun 2023

Wind Speed [mph]
2 - 4.9 | 5 - 6.9 | 7 - 9.9 | 10 - 14.9 | 15 - 19.9 | 20+

Appendix M

Solids Management Plan

Sewage Sludge Management Plan

CITY OF STINNETT, TEXAS

Treatment Units and Processes Dimensions and Capacities

Facultative Lagoon #1 = 1.95 ac
The deep end of the lagoon will be 12 ft in depth and accounts for approximately 25% of the surface area. The shallow end of the lagoon will be 8 ft in depth and accounts approximately 75% of the surface area.

Solids Generated at 100, 75, 50, and 25 Percent of Design Flow and Quantity of Solids to Be Removed and a Schedule For Solids Removal

The proposed facultative lagoon will provide primary treatment.

Design Flow	0.2 MGD
Influent BOD_5 Concentration	200 mg/L
50% BOD_5 Removed in Facultative Lagoon	100 mg/L
Remaining BOD_5 Concentration	100 mg/L
Average Effluent BOD_5 Concentration	50 mg/L
Average Net BOD_5 Removed	50 mg/L

100% Flow: 50 x 0.20 x 8.351 x 0.351 = 29.3 *lb/day sludge produced*

75% Flow: 50 x 0.15 x 8.351 x 0.351 = 22.0 *lb/day sludge produced*

50% Flow: 50 x 0.1 x 8.351 x 0.351 = 14.7 *lb/day sludge produced*

25% Flow: 50 x 0.05 x 8.351 x 0.351 = 7.3 *lb/day sludge produced*

Due to the low flow conditions of the treatment facility, the amount of sludge produced will be negligible considering the size of the lagoons and the life expectancy of the synthetic liner. For this reason, the facultative lagoon is able to store and digest sludge throughout its design life. At this time, it is planned to de-water the lagoons at the end of the pond's useful life, let the sludge air dry to the extent feasible, then fill in the ponds, leaving the air dried sludge in situ. In any event, closure will follow the TCEQ rules in effect at that future time.

Appendix N

Annual Cropping Plan

APPENDIX N

ANNUAL CROPPING PLAN

Stinnett, Texas

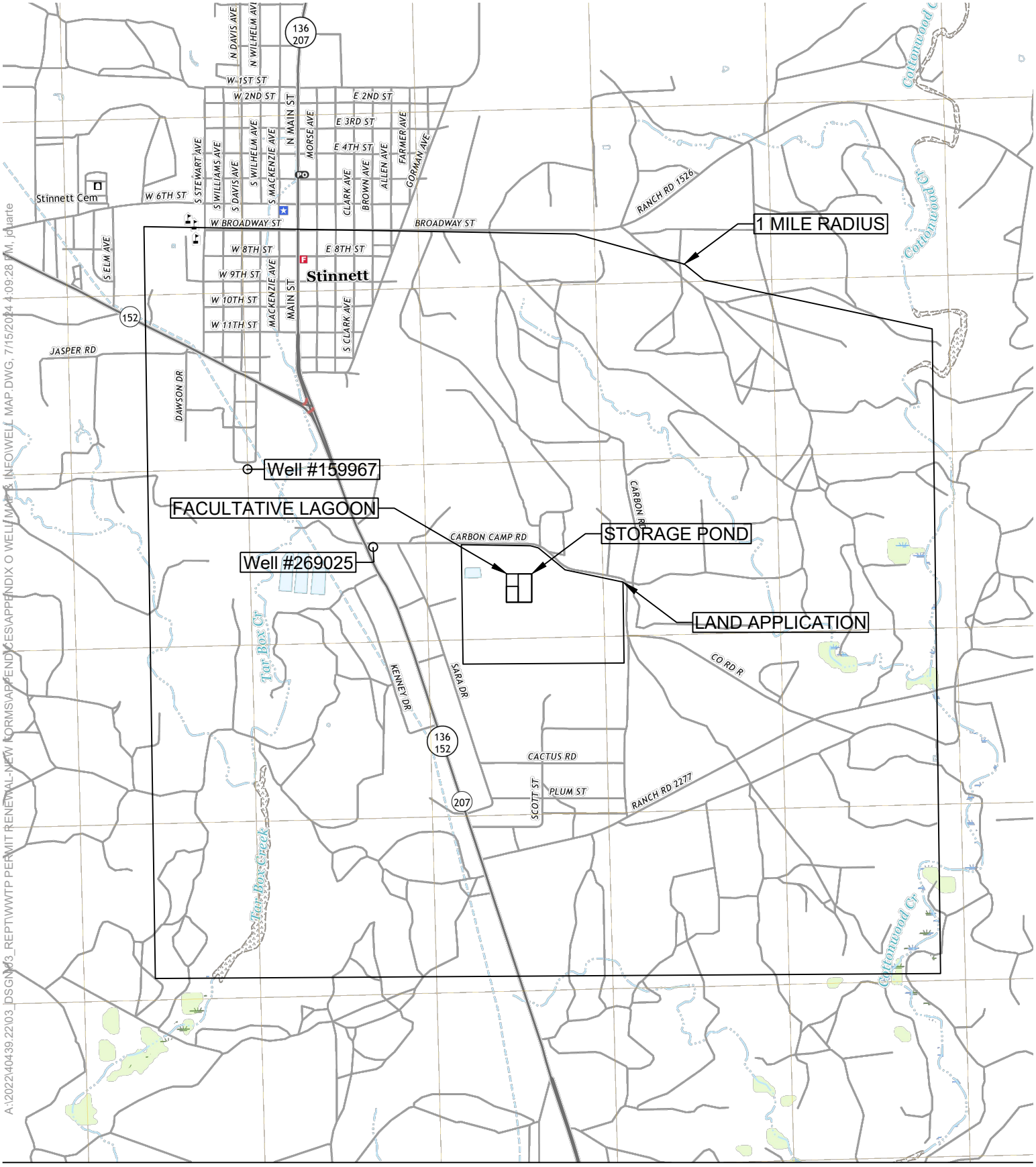
A. See attached Soil Map(Appendix Q)
B. The City of Stinnett grows approximately 160 acres of Native Perennial and Rye Grass, as shown on the attached map. These crops are capable of being grown year round.
C. N/A
D. Typical Annual Growing Season is as follows:

Month	Native Perennial and Rye Grass
January	X
February	X
March	X
April	X
May	X
June	X
August	X
September	X
October	X
November	X
December	X

E. The City of Stinnett will provide essential nutrients to keep the grasses healthy year round.
F. There is no minimum harvest height.
G. No additional water requirements are necessary.
H. According to Table 3 of TAC 309.20, ryegrass is relatively salt tolerant with 6.0 – 8.0 millimhos/cm at 25° C
I. The land application area will be mowed as necessary
J. The crop is existing native vegetation that will not be harvested.

Appendix O

Well Map and Info



A:\2022\40439.22\03_DSGN\03_REPT\WWTP PERMIT RENEWAL-NEW FORMS\APPENDICES\APPENDIX O WELL MAPS\NEO\WELL MAP.DWG, 7/15/2024 4:09:28 PM, jolarte

City of Stinnett Wastewater Treatment Plant Renewal

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill
Parkhill.com

Well Map

Issue:	Renewal
Date:	07/10/2024
Project No:	40439.22
Sheet:	1 OF 1

STATE OF TEXAS WELL REPORT for Tracking #159967

Owner:	**BUNK FARLEY**	Owner Well #:	**11-08**
Address:	**HCR 2 BOX 113 STINNETT, TX 79083**	Grid #:	**06-13-5**
Well Location:	**SEC 23 BLK M-23 SURVEY TCRR STINNETT, TX 79083**	Latitude:	**35° 48' 46" N**
		Longitude:	**101° 26' 46" W**
Well County:	**Hutchinson**	Elevation:	**3152 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Stock**

Drilling Start Date: **11/14/2008** Drilling End Date: **11/14/2008**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**355**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**20**	**355**	**Gravel**	**#1 fine**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**2**	**20**	**5**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **116 ft.** below land surface on **2008-11-14** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 30+ GPM after 1.5 hours, no drawdown 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?: **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: **LES TAYLOR DRILLING**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**120**	**surface sand gravel & clay**
120	**160**	**clay & sandy clay w/sand & sandstone**
160	**200**	**clay & sandy clay w/sand strips**
200	**240**	**clay & sandy clay w/sand strips**
240	**280**	**fine to med fairly loose**
280	**320**	**fairly loose sand clay & white rock**
320	**355**	**white rock, some broken & clay(red)**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**N**	**STEEL**	**+2 -3**
5	**N**	**PVC**	**-3 245**
5	**N**	**PERFS**	**245 345 .050**
5	**N**	**PVC**	**345 355**

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 #269025

Owner:	**Dusty Irvin**	Owner Well #:	**No Data**
Address:	**Box 3432 Stinnett, TX 79083**	Grid #:	**06-13-5**
		Latitude:	**35° 48' 33" N**
Well Location:	**105 Scott St Stinnett, TX**	Longitude:	**101° 26' 16" W**
Well County:	**Hutchinson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/7/2011** Drilling End Date: **10/7/2011**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**445**

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**22**	**245**	**Gravel**	**8/16**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**2**	**22**	**5 cement**
	330	**335**	**bentonite**

Seal Method: **tremmie**

Sealed By: **Mark**

Distance to Property Line (ft.): **50+**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **186 ft.** below land surface on **2011-10-07** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Bailer** **Yield: 12 GPM with 112 ft. drawdown after 1 hours**

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: **K-Ran Drilling**

5230 Hester
Amarillo, TX 79124

Driller Name: **Mark Randall** License Number: **2848**

Apprentice Name: **Lupe Limas** Apprentice Number: **57597**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**top soil**
2	**8**	**reddish sand**
8	**19**	**light brown loose sand**
19	**34**	**light brown sandy clay**
34	**45**	**light green clay**
45	**56**	**dolomite (drill soft)**
56	**208**	**red clay**
208	**370**	**red clay with red sand**
370	**445**	**red clay with light brown sand**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 new pvc 0-260 200 cl
5 new pvc 260-360 250 cl
5 new perf .035 360-440 200 cl
5' blank on bottom

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

Appendix P

Ground Water Quality

Groundwater Quality Report

The City of Stinnett Wastewater Treatment Plant and effluent disposal site are located in central Hutchison County, south of Stinnett, Texas. The site is located within the boundaries of the Ogallala Aquifer, a major aquifer in West Texas. Please refer to the map provided for further details. The maps and following information was obtained from Texas Water Development Board Groundwater Database.

The Ogallala Aquifer – is unconfined and the largest aquifer in the United States. The aquifer consists of sand, gravel, clay and silt and has a maximum thickness of 800 feet. Freshwater saturated thickness of the aquifer averages 95 feet.

The proposed plant is expected to have minimal to no impact on groundwater in the area. Year round operation at maximum permitted flow would result in 224.03 acre-ft/year of applied effluent over 160 acres of non-public access land. Effluent will be applied at a rate to not penetrate past the root zone into the groundwater. The proposed facility will utilize 60 mil HDPE linear and 20 oz geotextile, which will be an improvement from the existing lagoon system.

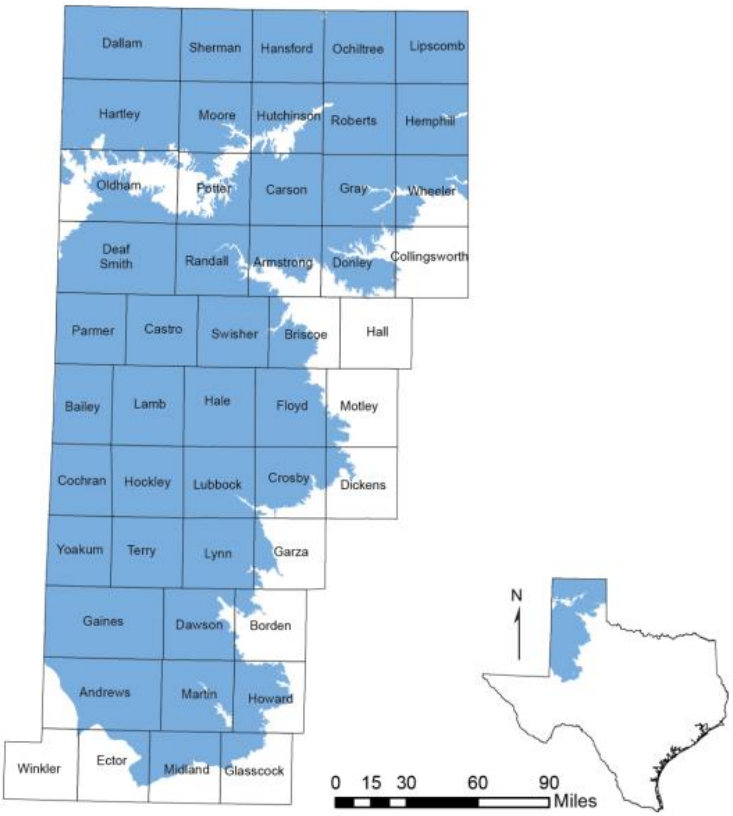


Figure 6-24. Extent of the Ogallala Aquifer in Texas.

Appendix Q

Soil Map and Analysis

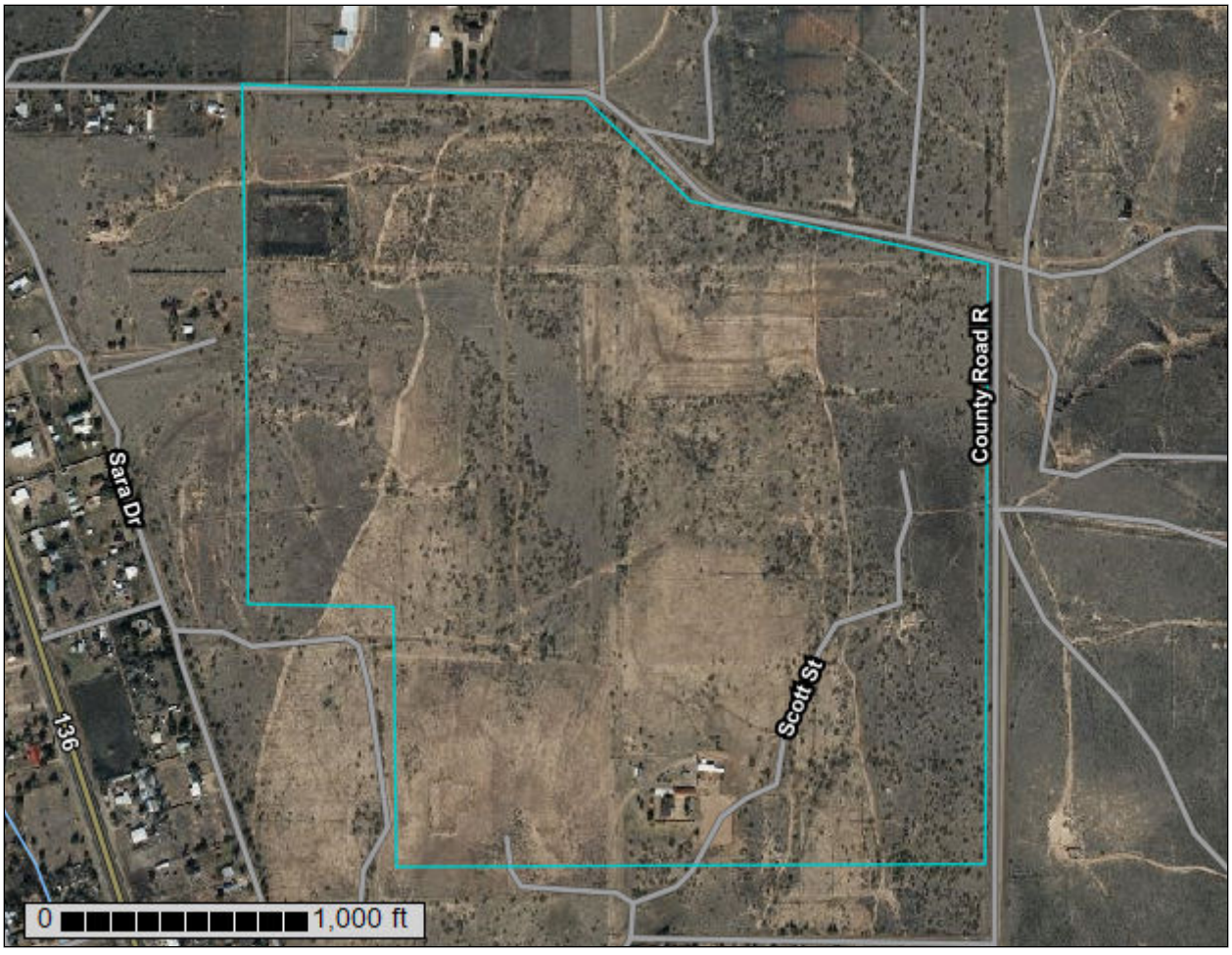
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Hutchinson County, Texas



July 10, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

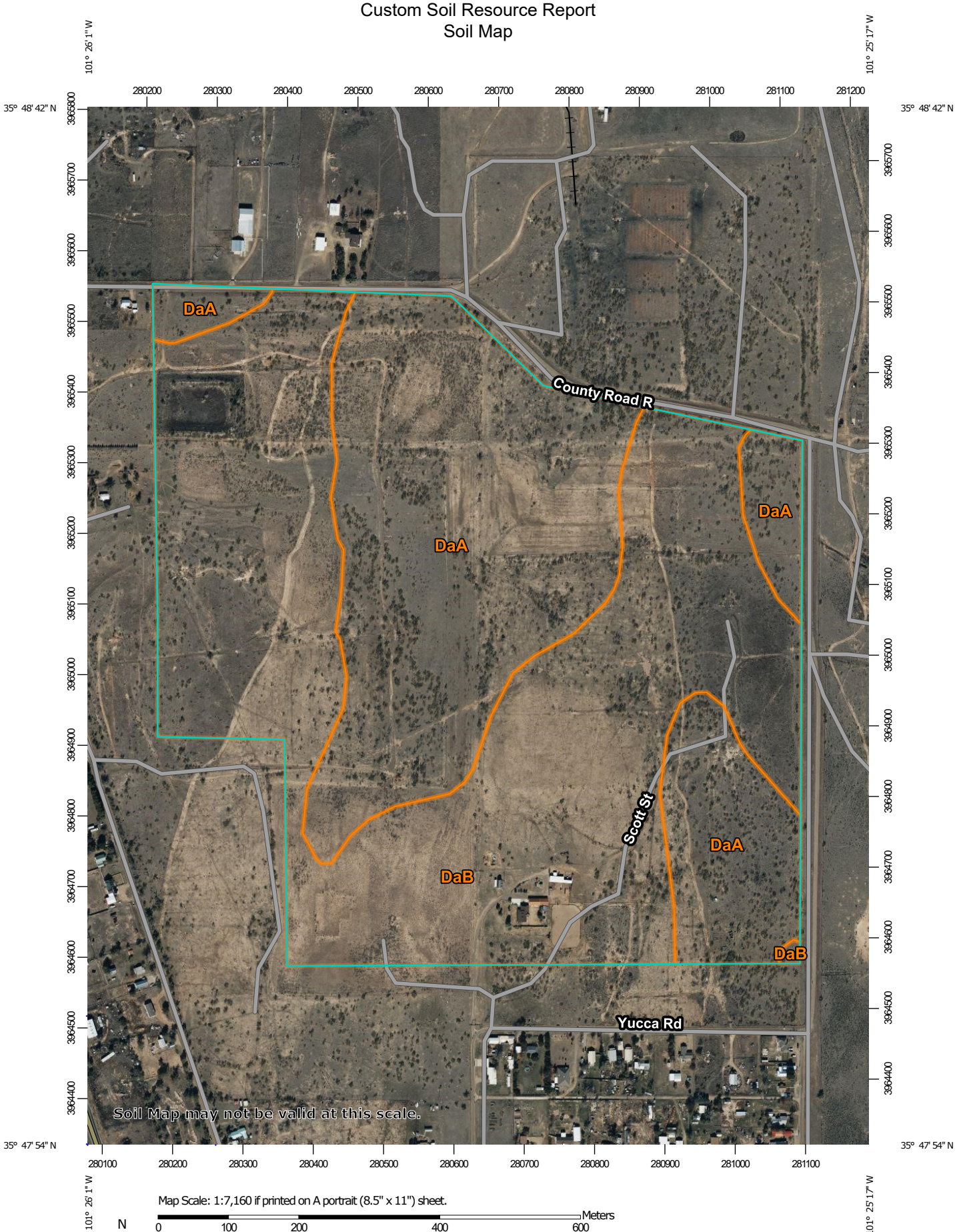
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hutchinson County, Texas
Survey Area Data: Version 19, Aug 24, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 13, 2022—Nov 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DaA	Ady fine sandy loam, 0 to 1 percent slopes	78.6	42.6%
DaB	Ady fine sandy loam, 1 to 3 percent slopes	105.9	57.4%
Totals for Area of Interest		**184.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hutchinson County, Texas

DaA—Ady fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2w84l
Elevation: 2,200 to 4,920 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 55 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Ady and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ady

Setting

Landform: Erosion remnants, interfluves, hillslopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest, interfluve, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Loamy slope alluvium

Typical profile

A - 0 to 10 inches: fine sandy loam
Bt - 10 to 30 inches: sandy clay loam
Btk1 - 30 to 48 inches: sandy clay loam
Btk2 - 48 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: B
Ecological site: R077EY066TX - Sandy Loam 16-24" PZ
Hydric soil rating: No

Minor Components

Alibates

Percent of map unit: 8 percent
Landform: Erosion remnants, interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY051TX - Clay Loam 16-24" PZ
Hydric soil rating: No

Mobeetie

Percent of map unit: 7 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex
Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 5 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

DaB—Ady fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2w84m
Elevation: 2,200 to 4,920 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 55 to 63 degrees F
Frost-free period: 80 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Ady and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ady

Setting

Landform: Erosion remnants, interfluves, hillslopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest, interfluve, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Loamy slope alluvium

Typical profile

A - 0 to 10 inches: fine sandy loam
Bt - 10 to 30 inches: sandy clay loam
Btk1 - 30 to 48 inches: sandy clay loam
Btk2 - 48 to 80 inches: clay loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: B
Ecological site: R077EY066TX - Sandy Loam 16-24" PZ
Hydric soil rating: No

Minor Components

Alibates

Percent of map unit: 8 percent
Landform: Erosion remnants, interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: R077EY051TX - Clay Loam 16-24" PZ
Hydric soil rating: No

Mobeetie

Percent of map unit: 7 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex

Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 5 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

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United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Hutchinson County, Texas

July 5, 2023

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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DaB—Ady fine sandy loam, 1 to 3 percent slopes.....18
DaC—Ady fine sandy loam, 3 to 5 percent slopes.....19
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LkC—Likes loamy fine sand, 1 to 8 percent slopes.....23
M-W—Miscellaneous water.....25
MbC—Mobeetie fine sandy loam, 3 to 5 percent slopes, cool.....25
MbD—Mobeetie fine sandy loam, cool, 5 to 12 percent slopes.....27
PtE—Potter soils, 3 to 20 percent slopes, cool.....29
TaE—Tascosa gravelly loam, 3 to 30 percent slopes.....30
VeC—Veal fine sandy loam, 3 to 5 percent slopes, cool.....32
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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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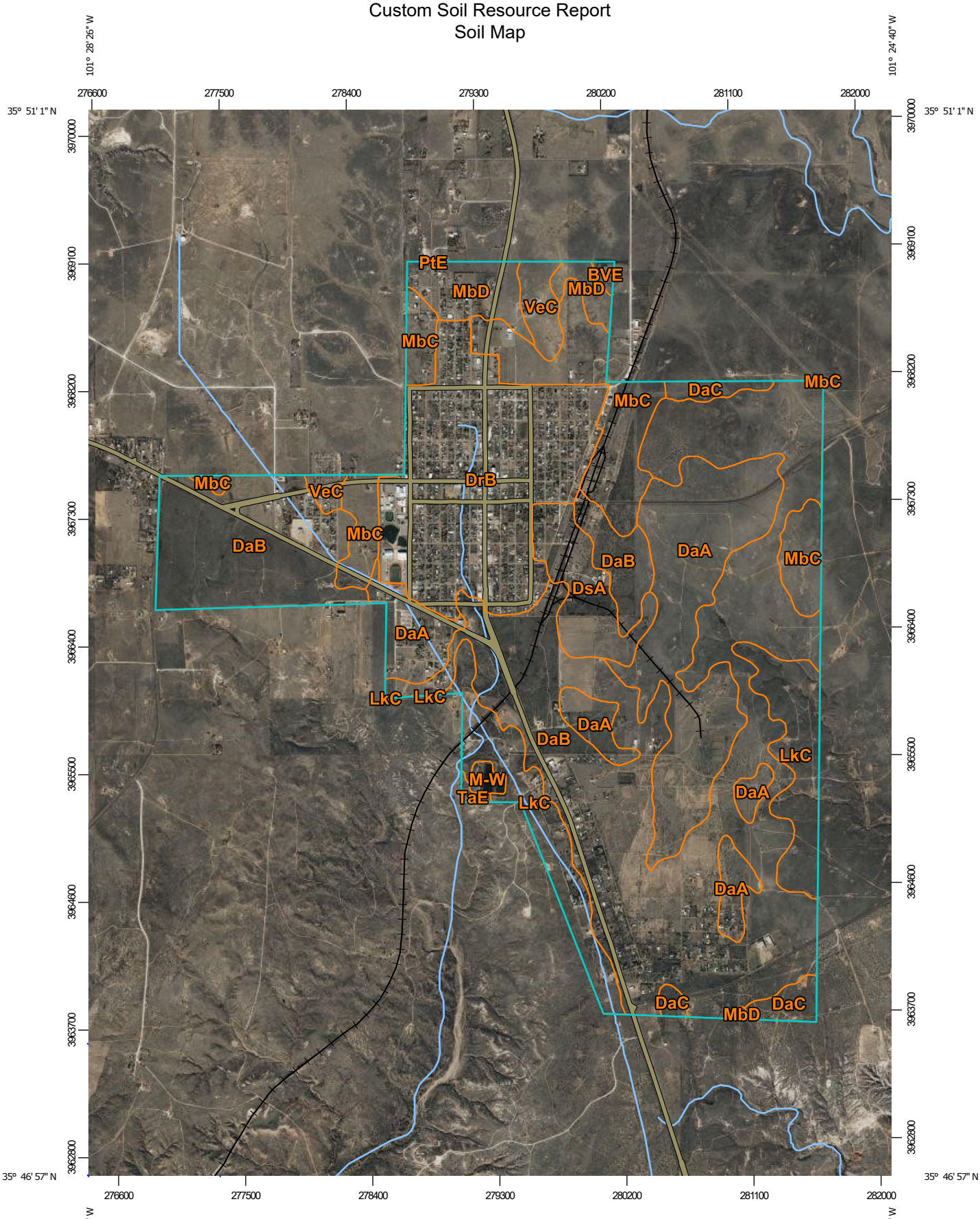
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
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- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
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- Closed Depression
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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
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Coordinate System: Web Mercator (EPSG:3857)

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BVE	Berda and Veal soils, 3 to 15 percent slopes	6.0	0.2%
DaA	Ady fine sandy loam, 0 to 1 percent slopes	529.9	15.2%
DaB	Ady fine sandy loam, 1 to 3 percent slopes	1,499.2	42.9%
DaC	Ady fine sandy loam, 3 to 5 percent slopes	55.3	1.6%
DrB	Dallam-Urban land complex, 0 to 3 percent slopes	523.1	15.0%
DsA	Dumas loam, 0 to 1 percent slopes	116.2	3.3%
LkC	Likes loamy fine sand, 1 to 8 percent slopes	277.3	7.9%
M-W	Miscellaneous water	11.5	0.3%
MbC	Mobeetie fine sandy loam, 3 to 5 percent slopes, cool	315.5	9.0%
MbD	Mobeetie fine sandy loam, cool, 5 to 12 percent slopes	104.4	3.0%
PtE	Potter soils, 3 to 20 percent slopes, cool	0.1	0.0%
TaE	Tascosa gravelly loam, 3 to 30 percent slopes	5.2	0.1%
VeC	Veal fine sandy loam, 3 to 5 percent slopes, cool	53.1	1.5%
Totals for Area of Interest		**3,496.9**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made

up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hutchinson County, Texas

BVE—Berda and Veal soils, 3 to 15 percent slopes

Map Unit Setting

National map unit symbol: dbtz
Elevation: 2,800 to 3,400 feet
Mean annual precipitation: 18 to 24 inches
Mean annual air temperature: 56 to 62 degrees F
Frost-free period: 180 to 210 days
Farmland classification: Not prime farmland

Map Unit Composition

Berda and similar soils: 45 percent
Veal and similar soils: 35 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berda

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Neogene calcareous loamy colluvium and/or slope alluvium

Typical profile

A - 0 to 10 inches: loam
Bw - 10 to 24 inches: sandy clay loam
Bk1 - 24 to 42 inches: sandy clay loam
Bk2 - 42 to 80 inches: sandy clay loam

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to slightly saline (0.5 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water supply, 0 to 60 inches: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R077EY055TX - Hardland Slopes 16-24" PZ
Forage suitability group: Unnamed (G077EH000TX)

Other vegetative classification: Unnamed (G077EH000TX)
Hydric soil rating: No

Description of Veal

Setting

Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Parent material: Neogene calcareous loamy colluvium and/or slope alluvium

Typical profile

A - 0 to 3 inches: loam
Bk - 3 to 13 inches: gravelly fine sandy loam
Bkk - 13 to 80 inches: gravelly loam

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

Minor Components

Potter

Percent of map unit: 9 percent
Landform: Draws, escarpments, valley sides
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Linear, convex
Across-slope shape: Concave, convex
Ecological site: R077EY068TX - Very Shallow 16-24" PZ
Hydric soil rating: No

Mobeetie

Percent of map unit: 7 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex

Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Guadalupe, occasionally flooded
Percent of map unit: 4 percent
Landform: Flood plains, drainageways
Landform position (three-dimensional): Tread
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Ecological site: R077EY065TX - Sandy Bottomland 16-24" PZ
Hydric soil rating: No

DaA—Ady fine sandy loam, 0 to 1 percent slopes

Map Unit Setting
National map unit symbol: 2w84l
Elevation: 2,200 to 4,920 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 55 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Ady and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ady

Setting
Landform: Erosion remnants, interfluves, hillslopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest, interfluve, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Loamy slope alluvium

Typical profile
A - 0 to 10 inches: fine sandy loam
Bt - 10 to 30 inches: sandy clay loam
Btk1 - 30 to 48 inches: sandy clay loam
Btk2 - 48 to 80 inches: clay loam

Properties and qualities
Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: B
Ecological site: R077EY066TX - Sandy Loam 16-24" PZ
Hydric soil rating: No

Minor Components

Alibates

Percent of map unit: 8 percent
Landform: Erosion remnants, interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY051TX - Clay Loam 16-24" PZ
Hydric soil rating: No

Mobeetie

Percent of map unit: 7 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex
Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 5 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

DaB—Ady fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2w84m
Elevation: 2,200 to 4,920 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 55 to 63 degrees F
Frost-free period: 80 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Ady and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ady

Setting

Landform: Erosion remnants, interfluves, hillslopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest, interfluve, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Loamy slope alluvium

Typical profile

A - 0 to 10 inches: fine sandy loam
Bt - 10 to 30 inches: sandy clay loam
Btk1 - 30 to 48 inches: sandy clay loam
Btk2 - 48 to 80 inches: clay loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: B

Ecological site: R077EY066TX - Sandy Loam 16-24" PZ
Hydric soil rating: No

Minor Components

Alibates
Percent of map unit: 8 percent
Landform: Erosion remnants, interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: R077EY051TX - Clay Loam 16-24" PZ
Hydric soil rating: No

Mobeetie
Percent of map unit: 7 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex
Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Veal
Percent of map unit: 5 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

DaC—Ady fine sandy loam, 3 to 5 percent slopes

Map Unit Setting
National map unit symbol: 2w84n
Elevation: 2,200 to 4,920 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 55 to 63 degrees F
Frost-free period: 80 to 220 days
Farmland classification: Farmland of statewide importance

Map Unit Composition
Ady and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ady

Setting

Landform: Erosion remnants, interfluves, hillslopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest, interfluve, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Loamy slope alluvium

Typical profile

A - 0 to 10 inches: fine sandy loam
Bt - 10 to 30 inches: sandy clay loam
Btk1 - 30 to 48 inches: sandy clay loam
Btk2 - 48 to 80 inches: clay loam

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.5 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R077EY066TX - Sandy Loam 16-24" PZ
Hydric soil rating: No

Minor Components

Alibates

Percent of map unit: 8 percent
Landform: Erosion remnants, interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex, linear
Across-slope shape: Convex
Ecological site: R077EY051TX - Clay Loam 16-24" PZ
Hydric soil rating: No

Mobeetie

Percent of map unit: 7 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex

Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 5 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

DrB—Dallam-Urban land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dbv8
Elevation: 0 to 4,500 feet
Mean annual precipitation: 8 to 60 inches
Mean annual air temperature: 54 to 73 degrees F
Frost-free period: 175 to 310 days
Farmland classification: Not prime farmland

Map Unit Composition

Dallam and similar soils: 60 percent
Urban land: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dallam

Setting

Landform: Hillslopes
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous loamy colluvium and/or alluvium from the ogallala formation of miocene-pliocence age

Typical profile

H1 - 0 to 7 inches: fine sandy loam
H2 - 7 to 34 inches: sandy clay loam
H3 - 34 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.3 inches)

Interpretive groups
Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R077AY012TX - Sandy Loam 16-22" PZ
Hydric soil rating: No

Description of Urban Land

Typical profile
H1 - 0 to 80 inches: variable

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Unnamed
Percent of map unit: 10 percent
Hydric soil rating: No

DsA—Dumas loam, 0 to 1 percent slopes

Map Unit Setting
National map unit symbol: dbv9
Elevation: 3,000 to 4,750 feet
Mean annual precipitation: 16 to 24 inches
Mean annual air temperature: 54 to 57 degrees F
Frost-free period: 175 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Dumas and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dumas

Setting

Landform: Sand sheets
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 48 inches: clay loam
H3 - 48 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R077AY001TX - Deep Hardland 16-22" PZ
Hydric soil rating: No

LkC—Likes loamy fine sand, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2tqtm
Elevation: 1,970 to 3,940 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 185 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Likes and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Likes

Setting

Landform: Hillslopes, alluvial fans
Landform position (two-dimensional): Summit, shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Calcareous sandy colluvium and/or alluvium

Typical profile

A - 0 to 10 inches: loamy fine sand
Ck - 10 to 80 inches: loamy sand

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 4 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R077EY064TX - Sandy 16-24" PZ
Hydric soil rating: No

Minor Components

Mobeetie

Percent of map unit: 2 percent
Landform: Alluvial fans, hillslopes
Landform position (two-dimensional): Summit, shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Tivoli

Percent of map unit: 2 percent
Landform: Dunes
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex

Ecological site: R077EY063TX - Sand Hills 16-24" PZ
Hydric soil rating: No

Guadalupe

Percent of map unit: 1 percent
Landform: Terraces, flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY065TX - Sandy Bottomland 16-24" PZ
Hydric soil rating: No

M-W—Miscellaneous water

Map Unit Composition

Water, miscellaneous: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Water, Miscellaneous

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: D
Hydric soil rating: No

MbC—Mobeetie fine sandy loam, 3 to 5 percent slopes, cool

Map Unit Setting

National map unit symbol: 2tqtp
Elevation: 2,200 to 4,700 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 180 to 210 days
Farmland classification: Not prime farmland

Map Unit Composition

Mobeetie and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mobeetie

Setting

Landform: Valley flats, hillslopes, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope

Down-slope shape: Convex
Across-slope shape: Linear, convex
Parent material: Calcareous, sandy colluvium and/or slope alluvium

Typical profile

A - 0 to 10 inches: fine sandy loam
Bk - 10 to 42 inches: fine sandy loam
BCk - 42 to 80 inches: fine sandy loam

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Minor Components

Berda

Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077EY055TX - Hardland Slopes 16-24" PZ
Hydric soil rating: No

Likes

Percent of map unit: 4 percent
Landform: Hillslopes, alluvial fans
Landform position (two-dimensional): Summit, shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R077EY064TX - Sandy 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 4 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit

Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

Guadalupe

Percent of map unit: 2 percent
Landform: Terraces, flood plains, draws
Landform position (two-dimensional): Footslope, toeslope, backslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Linear, concave
Across-slope shape: Linear
Ecological site: R077EY065TX - Sandy Bottomland 16-24" PZ
Hydric soil rating: No

MbD—Mobeetie fine sandy loam, cool, 5 to 12 percent slopes

Map Unit Setting

National map unit symbol: 2tqty
Elevation: 2,200 to 4,000 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 210 days
Farmland classification: Not prime farmland

Map Unit Composition

Mobeetie and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mobeetie

Setting

Landform: Valley flats, hillslopes, valley sides
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear, convex
Parent material: Neogene coarse-loamy colluvium and/or slope alluvium

Typical profile

A - 0 to 10 inches: fine sandy loam
Bk - 10 to 42 inches: fine sandy loam
BCk - 42 to 80 inches: fine sandy loam

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.1 to 1.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Minor Components

Berda

Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077EY055TX - Hardland Slopes 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 4 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

Likes

Percent of map unit: 4 percent
Landform: Hillslopes, alluvial fans
Landform position (two-dimensional): Summit, shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R077EY064TX - Sandy 16-24" PZ
Other vegetative classification: Unnamed (G077EH000TX)
Hydric soil rating: No

Guadalupe, occasionally flooded

Percent of map unit: 2 percent
Landform: Flood plains, draws
Landform position (two-dimensional): Toeslope, backslope
Landform position (three-dimensional): Base slope, tread
Down-slope shape: Linear, concave
Across-slope shape: Linear

Ecological site: R077EY065TX - Sandy Bottomland 16-24" PZ
Hydric soil rating: No

PtE—Potter soils, 3 to 20 percent slopes, cool

Map Unit Setting

National map unit symbol: 2w84c
Elevation: 2,200 to 5,300 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 210 days
Farmland classification: Not prime farmland

Map Unit Composition

Potter and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Potter

Setting

Landform: Draws, escarpments, valley sides
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Linear, convex
Across-slope shape: Concave, convex
Parent material: Calcareous loamy alluvium

Typical profile

A - 0 to 6 inches: gravelly loam
Bkk - 6 to 15 inches: very gravelly sandy loam
BCkk1 - 15 to 29 inches: very gravelly sandy loam
BCkk2 - 29 to 80 inches: extremely gravelly fine sandy loam

Properties and qualities

Slope: 3 to 20 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 80 percent
Maximum salinity: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: C
Ecological site: R077EY068TX - Very Shallow 16-24" PZ
Hydric soil rating: No

Minor Components

Rock outcrop
Percent of map unit: 5 percent
Landform: Escarpments on hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Berda
Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077EY055TX - Hardland Slopes 16-24" PZ
Hydric soil rating: No

Veal
Percent of map unit: 3 percent
Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

Bippus, occasionally flooded, cool
Percent of map unit: 2 percent
Landform: Flood plains, draws
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY052TX - Draw 16-24" PZ
Hydric soil rating: No

TaE—Tascosa gravelly loam, 3 to 30 percent slopes

Map Unit Setting
National map unit symbol: 2zfmv
Elevation: 2,500 to 4,300 feet

Mean annual precipitation: 16 to 22 inches
Mean annual air temperature: 56 to 59 degrees F
Frost-free period: 180 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Tascosa and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tascosa

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Neogene calcareous sandy and gravelly alluvium and/or colluvium

Typical profile

A - 0 to 8 inches: gravelly loam
Bk - 8 to 14 inches: very gravelly loam
Ck1 - 14 to 22 inches: very gravelly loam
Ck2 - 22 to 80 inches: very gravelly sandy loam

Properties and qualities

Slope: 3 to 30 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 7e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R077EY053TX - Gravelly 16-24" PZ
Hydric soil rating: No

Minor Components

Mobeetie

Percent of map unit: 8 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear

Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Likes

Percent of map unit: 6 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY064TX - Sandy 16-24" PZ
Hydric soil rating: No

Veal

Percent of map unit: 4 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

Alibates

Percent of map unit: 2 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077EY051TX - Clay Loam 16-24" PZ
Hydric soil rating: No

VeC—Veal fine sandy loam, 3 to 5 percent slopes, cool

Map Unit Setting

National map unit symbol: 2w84j
Elevation: 2,200 to 5,300 feet
Mean annual precipitation: 15 to 26 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 180 to 210 days
Farmland classification: Not prime farmland

Map Unit Composition

Veal, cool, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Veal, Cool

Setting

Landform: Valley sides, scarps, knolls
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Concave, convex
Parent material: Calcareous loamy colluvium and/or slope alluvium

Typical profile

A - 0 to 3 inches: fine sandy loam
Bk - 3 to 13 inches: gravelly fine sandy loam
Bkk1 - 13 to 54 inches: gravelly loam
Bkk2 - 54 to 80 inches: gravelly loam

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R077EY057TX - Limy Upland 16-24" PZ
Hydric soil rating: No

Minor Components

Berda

Percent of map unit: 4 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077EY055TX - Hardland Slopes 16-24" PZ
Hydric soil rating: No

Potter

Percent of map unit: 4 percent
Landform: Draws, escarpments, valley sides
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Linear, convex
Across-slope shape: Concave, convex

Ecological site: R077EY068TX - Very Shallow 16-24" PZ
Hydric soil rating: No

Mobeetie

Percent of map unit: 4 percent
Landform: Valley flats, valley sides, scarps
Landform position (two-dimensional): Footslope, backslope
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Convex
Across-slope shape: Convex, concave
Ecological site: R077EY061TX - Mixedland Slopes 16-24" PZ
Hydric soil rating: No

Ady

Percent of map unit: 3 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R077EY066TX - Sandy Loam 16-24" PZ
Hydric soil rating: No

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Appendix R

Water Balance and Nitrogen Balance

Table 1

Month:	Avg. Rain	Avg. Run	Avg. Ri	ET_crop	Req. Lea	Total Needs	Eff. Needs	Net Evap.	Net Evap. R	Eff. App.	Cons. Res.
January	0.57961538	0.046159	0.53346	1.921	0.1166	2.0375687	1.50411214	2.8438462	0.047723	1.76954369	1.817267
February	0.53307692	0.056311	0.47677	2.1675	0.142	2.30954	1.83277417	3.2057692	0.053797	2.156204911	2.2100017
March	1.28076923	0.009794	1.27098	3.5063	0.1878	3.6940373	2.42306227	5.3165385	0.089218	2.85066149	2.9398797
April	1.69807692	0.071438	1.62664	4.811	0.2675	5.0785208	3.45188165	6.5419231	0.109782	4.061037241	4.1708189
May	2.32192308	0.248514	2.07341	5.8531	0.3175	6.170635	4.09722573	6.9365385	0.116404	4.820265567	4.9366694
June	2.56730769	0.340749	2.22656	6.4303	0.3532	6.7834056	4.55684658	9.1465385	0.15349	5.360995977	5.5144863
July	2.27038462	0.230618	2.03977	7.225	0.4356	7.6606159	5.62084971	9.6796154	0.162436	6.612764367	6.7752004
August	2.91115385	0.487784	2.42337	6.46	0.3391	6.7991206	4.37575031	8.4492308	0.141789	5.147941536	5.2897302
September	1.57884615	0.048581	1.53027	4.93	0.2856	5.2156146	3.68534908	7.0169231	0.117753	4.335704797	4.4534575
October	2.10269231	0.176202	1.92649	4.08	0.1809	4.2609181	2.33442732	5.4669231	0.091742	2.746385084	2.8381269
November	0.70692308	0.023885	0.68304	2.4608	0.1493	2.6100971	1.92705899	4.0438462	0.067861	2.267128228	2.334989
December	0.66038462	0.031118	0.62927	1.87	0.1042	1.9742351	1.34496853	2.9711538	0.04986	1.582315916	1.6321756
Total:	19.2111538	1.771152	17.44	51.715	2.8795	54.594309	37.1543065	71.618846	1.201854	43.7109488	44.912803

Table 2

Month:	Eff. Rec.	MRD%	Rain Ma	Run Max	Ri(worst)	Total Ava.	DOM%	Net Ev.(	Storage	Acc. Stor.
January	6.9186319	3.01732	1.1046	0.000581	1.10406	8.022692	3.96544	3.3238	2.496553834	5.501859
February	9.2088513	2.77505	1.0159	0.000212	1.015735	10.22459	4.470104	3.7468	3.939887146	9.441746
March	8.5164672	6.66733	2.4409	0.291825	2.149086	10.66555	7.413346	6.2139	0.485010789	9.926757
April	8.7319708	8.83972	3.2362	0.643534	2.592689	11.32466	9.122015	7.6461	-1.83860974	8.088147
May	7.897598	12.0873	4.4252	1.321935	3.103224	11.00082	9.672264	8.1073	-3.81841289	4.269735
June	7.877938	13.3647	4.8928	1.625379	3.267439	11.14538	12.75387	10.69	-6.94879056	-2.67906
July	7.3230057	11.819	4.3269	1.260493	3.066443	10.38945	13.49719	11.313	-9.39524962	-12.0743
August	7.4954926	15.1547	5.5481	2.077096	3.471028	10.96652	11.78155	9.8753	-6.29520719	-18.3695
September	6.0183898	8.21904	3.009	0.533053	2.475938	8.494328	9.784352	8.2012	-5.40600289	-23.7755
October	6.5823119	10.946	4.0073	1.066669	2.940676	9.522988	7.623042	6.3896	-1.36054758	-25.1361
November	6.9257734	3.68005	1.3473	0.016031	1.331235	8.257008	5.638713	4.7264	0.694860819	-24.4412
December	6.6344864	3.43778	1.2586	0.008039	1.250532	7.885019	4.142958	3.4726	2.310444547	-22.1308
Total:	90.130917	100.008	36.613	8.844846	27.76809	117.899	99.86485	83.707		

Nitrogen Balance for Ryegrass

Inputs

Design flow =	0.2	MGD
Design flow =	224	acre-ft/year
Area under irrigation =	160	acres
Design application rate =	1.40	acre-ft/acre/year
Nitrogen effluent concentration =	10	mg/L
Applied nitrogen effluent concentration =	8	mg/L (assuming 20% volatilization)
Design Total Nitrogen loading rate =	0.08	lbs N / acre / day
Design Total Nitrogen loading rate =	30	lbs N /acre / year
Crop nutrient uptake rate =	150	lbs N / acre/ year

Calculated liquid loading rate according to §309.20(b)(3)(C):

L = N / (2.7 * C)

where,

L = annual liquid loading (acre-ft/year)

C = effluent nitrogen concentration (mg/L)

N = annual crop requirement of nitrogen plus 20% volatilization (lb/acre/year)

C =	8	mg/L (Assume 20% volitilzation)
N =	150	lb/acre/year
L =	6.94	acre-ft/year

Flow	200,000	GPD
Nitrogen	10	mg/L
Uptake	4,873.5	lbs N/ yr
Acreage	160	acres
Total N	30	lbs N/ ac-yr

Nitrogen Uptake Rate

150 lbs of N/acre/year

Candice Calhoun

From: Paul Krueger <PKrueger@Parkhill.com>
Sent: Thursday, January 23, 2025 1:52 PM
To: Candice Calhoun; smiller@cityofstinnett.com
Cc: Roy Haden
Subject: RE: Application for Proposed Permit No. WQ0010291002 - City of Stinnett
Attachments: TCEQ_Stinnett-ApplicationResponse_01.22.2025.pdf; Affected Land Owners Avery5160 Template (002).docx

Hi Candice,

Please find our NOD response for the above referenced permit application attached. Feel free to reach out to me if you have any questions or would like to discuss further.

Thank you,

Paul Krueger, PE
Civil Engineer

Parkhill
806.473.3715 | Parkhill.com

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, January 9, 2025 3:28 PM
To: smiller@cityofstinnett.com
Cc: Paul Krueger <PKrueger@Parkhill.com>
Subject: RE: Application for Proposed Permit No. WQ0010291002 - City of Stinnett

My apologies, Please see the attached NOD with the corrected letterhead.

Candice Courville, LPS III
Texas Commission on Environmental Quality
Water Quality Division
Application Review & Processing Team
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Candice Calhoun
Sent: Thursday, January 9, 2025 3:24 PM
To: smiller@cityofstinnett.com
Cc: Paul Krueger <PKrueger@Parkhill.com>

Candice Calhoun

From: Paul Krueger <PKrueger@Parkhill.com>
Sent: Thursday, January 9, 2025 11:30 AM
To: Candice Calhoun; smiller@cityofstinnett.com
Subject: RE: Clarification Needed for WQ0010291002

Good Morning,

The final phase flow of 0.20 MGD is correct.

Thank you,

Paul Krueger, PE
Civil Engineer

Parkhill
806.473.3715 | Parkhill.com

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, January 9, 2025 11:23 AM
To: smiller@cityofstinnett.com
Cc: Paul Krueger <PKrueger@Parkhill.com>
Subject: Clarification Needed for WQ0010291002
Importance: High

Good morning, Ms. Miller,

I am working on the administrative review of Proposed Permit No. WQ0010291002 and need some clarification regarding the technical report, item 1.

In the previous permit for expired permit no. WQ0010291001, it was authorized for 0.3MGD. In the technical report provided in the new application, it looks like you are wanting to lower the final phase to 0.2MGD. Is this correct? I just want to make sure before I complete my review of the application or send any Notice of Deficiency (NOD) letter.

Please let me know if you have any questions.

Regards,

Candice Calhoun

From: Deba Dutta
Sent: Thursday, January 9, 2025 11:55 AM
To: Candice Calhoun
Cc: Deba Dutta
Subject: RE: Clarification Needed for WQ0010291002

Candice,
This is rare; however, I have seen such cases in the past, having a lower Final phase. I think, that should be okay.

Thanks.
Deba

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, January 9, 2025 11:40 AM
To: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Cc: Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>
Subject: FW: Clarification Needed for WQ0010291002
Importance: High

Good morning, Deba,

The application for Proposed Permit No. WQ0010291002 was originally submitted as a major amendment renewal for WQ0010291001, but since their permit already expired, we entered it as a new application. In their amendment request they had put this:

d. Check the box next to the appropriate application type

☐	New		
☒	Major Amendment *with* Renewal	☐	Minor Amendment *with*
☐	Major Amendment *without* Renewal	☐	Minor Amendment *with*
☐	Renewal without changes	☐	Minor Modification of p

e. For amendments or modifications, describe the proposed changes: The City of S constructing a new 0.2 MGD WWTP Facility. New Treatment units will include a facult a new storage pond. Treated effluent will be irrigated on 160 acres of existing, non-publ

And in their technical report they put this:

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.3

2-Hr Peak Flow (MGD): 0.9

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: 1977

B. Interim II Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 0.2

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

Estimated construction start date: TBD due to pending funding

Estimated waste disposal start date: Approximately 1 year after construction start date

D. Current Operating Phase

Provide the startup date of the facility: 1977

I did confirm that they want their final phase to be 0.2MGD, but I just wanted to double check with you and your team to see if it is okay to have the interim I phase flow higher than the final phase or should they switch these two?

Please let me know if you have any questions.

Thank you in advance,

Candice Courville, LPS III
Texas Commission on Environmental Quality
Water Quality Division
Application Review & Processing Team
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Paul Krueger <PKrueger@Parkhill.com>
Sent: Thursday, January 9, 2025 11:30 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; smiller@cityofstinnett.com
Subject: RE: Clarification Needed for WQ0010291002

Good Morning,

Parkhill

January 23, 2025

Candice Courville, LPS III
Texas Commission on Environmental Quality
Water Quality Division
Application Review & Processing Team
PO Box 13087
Austin, Texas 78711-3087

Re: Application for Proposed Permit No.: WQ0010291002
Applicant Name: City of Stinnett (CN601122179)
Site Name: City of Stinnett WWTP (RN102079613)
Type of Application: New

Dear Ms. Calhoun-Courville:

Please see our complete responses addressing the items in your letter received on January 9, 2025, for the above referenced permit.

1. Comment: *Application Fee on page 1 of the administrative report: We were unable to confirm payment of the application processing fee. The filing fee for your application is $1,250.00. Please submit payment to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, provide a copy of the check along with the response to this letter.*

   Response: The City of Stinnett mailed a check for $850.00 based on Section 1 of the Administrative Report. A copy of the check is included as Attachment E.

2. Administrative Report 1.0

   i. Comment: *Section 2, item d - the application type marked is incorrect for this application. Since the permit for WQ0010291001 has expired, a new application is required. Please update this section to show the application type as "New".*

      Response: Please see Attachment A for an updated Administrative Report.

   ii. Comment: *Section 8, item D- The physical address of the public viewing location cannot be a P.O. Box. Please provide an updated section of the application with a valid public viewing location and physical address.*

      Response: The address has been updated to 609 MacKenzie Ave, Stinnett, TX 79083. See Attachment A for an updated Administrative Report.

   iii. Comment: *Section 11, item A – the box listed as "No" should be marked as this is a new application. Please provide a revised section to show the correct box marked as well as provide an accurate description of the disposal site location.*

      Response: Please see Attachment A for an updated Administrative Report.

4222 85th Street | Lubbock, Texas 79423 | 806.473.2200 Parkhill.com

iv. Comment: *Section 14 – Signature Page – the signature page was not completed and notarized. Please provide a complete and notarized signature page.*

Response: Hard copies of the executed and notarized signature pages were submitted through mail. Following submission, an electronic copy of the application was requested. The electronic copy was provided; however, the completed signatures were not added since they had been mailed out.

3. Core Data Form

i. Comment: *Section V: Authorized Signature – the Core Data Form was not signed or dated. Please provide a signed and dated CDF.*

Response: A signed version of the Core Data Form was provided in the original submission via mail.

4. USGS Topographic Map

i. Comment: *The applicant's complete property boundary and the treatment facility boundaries were not labeled. As well as the one-mile radius is hard to see. Please provide an updated USGS map to include the requested information as well as to provide a more legible one-mile radius.*

Response: Please see Attachment B for a corrected map.

5. Plain Language Summary

i. Comment*: The Plain Language Summary provided, in English language, states "This permit is a major amendment with renewal…" This is a new application. Please update this PLS, in English language, accordingly.*

Response: Please see Attachment C.

ii. Comment*: Section 5, item e of the Public Involvement Plan form indicates that 15.2% speak a language other than English. If more than 5% of the population speaks another language other than English, then you are required to provide notice in the alternative language. Please use the attached PLS template to translate to the appropriate language. It seems the appropriate language is Spanish. If so, please use the attached Spanish PLS template.*

Response: Please note that the 15.2% value provided is incorrect. Based on the latest Census data as well as the EPA's Environmental Justice Screening and Mapping Tool, the percentage of Spanish speaking households is 8%. This value is still above the 5% threshold; however, it does not account for English proficiency. Per the TCEQ Public Involvement Plan Form and its instructions: "If more than 5% of the population potentially affected by the new facility is *limited English proficient*, then you are required to provide notice for the alternate language." According to the EPA's Environmental Justice Screen and Mapping Tool, which is the suggested resource given to complete the PIP form, the percentage of limited English speaking households of the population is 0%. Since this is less than the 5% threshold, an alternative language notice is not required.

6. Administrative Report 1.1

   i. Comment*: Landowner Map – the applicant's complete property boundaries were not delineated and labeled. Please provide an updated landowner to include the requested information.*

      Response: Please see Attachment D.

   ii. Comment*: Mailing Labels – Please provide the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document.*

      Response: The formatted list is provided as an attachment to this response email in a Microsoft Word document.

7. Notice of Receipt of Application and Intent to Obtain Permit

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

      Response: The portion of the NORI is correct.

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

      Response: Per Response 2 in the Plain Language Summary section above, a Spanish notice is not required.

If you should have any questions, please do not hesitate to contact me at pkrueger@parkhill.com or 806.473.2200.

Sincerely,

PARKHILL

By _____
Paul Krueger, PE
Civil Engineer

PK/rh/acs
Enclosures Attachment A: Updated Administrative Report
Attachment B: Updated USGS Map
Attachment C: Plain Language Summary
Attachment D: Updated Landowner Map
Attachment E: Copy of Application Check

cc: Stacie Miller, City Manager, City of Stinnett

Attachment A

Updated Administrative Report

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Stinnett

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

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: The City of Stinnett is constructing a new 0.2 MGD WWTP Facility. New Treatment units will include a facultative lagoon and a new storage pond. Treated effluent will be irrigated on 160 acres of existing, non-public access, land.

f. For existing permits:

Permit Number: WQ00 10291001

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

Expiration Date: October 1, 2024

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 Stinnett

(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: 601122179

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: Ivrin, Jeff

Title: Mayor Credential: Click to enter text.

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

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

N/A

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: Civil Engineer Credential: P.E.

Organization Name: Parkhill

Mailing Address: 4222 85th St City, State, Zip Code: Lubbock, TX 79423

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

B. Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: Civil Engineer Credential: P.E.

Organization Name: Parkhill

Mailing Address: 4222 85th St City, State, Zip Code: Lubbock, TX 79423

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

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

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

Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: Civil Engineer Credential: P.E.

Organization Name: Parkhill

Mailing Address: 4222 85th St City, State, Zip Code: Lubbock, TX 79423

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Miller, Stacie

Title: City Manager Credential: Click to enter text.

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

D. Public Viewing Information

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

Public building name: City Hall

Location within the building: Main Entrance

Physical Address of Building: 609 MacKenzie Ave

City: Sinnett County: Hutchinson

Contact (Last Name, First Name): Miller, Stacie

Phone No.: 806.878.2422 Ext.: N/A

E. Bilingual Notice Requirements

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

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

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

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

   ☐ Yes ☒ No

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

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: Appendix B: Plain Language Summary

G. Public Involvement Plan Form

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

Attachment: Appendix C: Public Involvement Plan

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102079613

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

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

Stinnett Wastewater Treatment Plant

C. Owner of treatment facility: City of Stinnett

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

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

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

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

Attachment: N/A

E. Owner of effluent disposal site:

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: City of Stinnett

Mailing Address: P.O. Box 909 City, State, Zip Code: Stinnett, TX 79083

Phone No.: 806.878.2422 E-mail Address: smiller@cityofstinnett.com

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

Attachment: N/A

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

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

N/A – TLAP only

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

☐ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☒ No

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

Approximately 1.0 mile north of the intersection of Farm to Market Road 2277 and State Highway 136, South of Stinnett, in Hutchinson County

B. City nearest the disposal site: Stinnett

C. County in which the disposal site is located: Hutchinson

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

Treated effluent is pumped from storage pond to the irrigation area.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Cottonwood Creek – Southeast of disposal site

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Appendix A: Core Data Form; Appendix B: Plain Language Summary; Appendix C: Public Involvement Plan

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010291001

Applicant: City of Stinnett

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): Jeff Irvin

Signatory title: Mayor

Signature:_____ Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____ day of_____, 20_____.

My commission expires on the_____ day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☒ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☒ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: County Appraisal District Website

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

☒ At least one original photograph of the new or expanded treatment unit location

☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☒ At least one photograph of the existing/proposed effluent disposal site

☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

☒ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

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

☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0010291002

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

   Name of Project or Site: Stinnett Wastewater Treatment Plant

   Physical Address of Project or Site: Approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136.

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

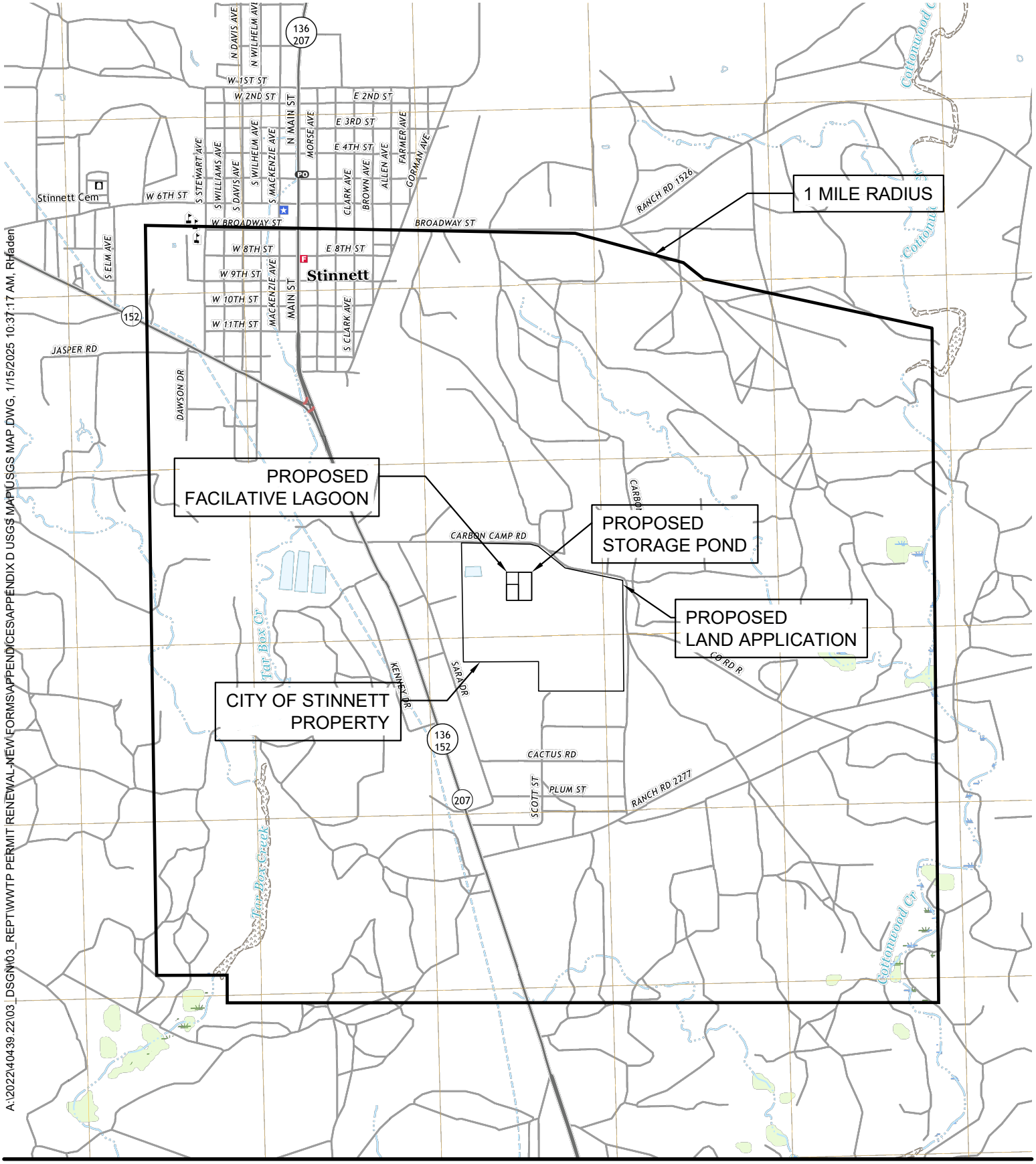
Landowners Labels or USB Drive attached ☐ N/A ☒ Yes
(See instructions for landowner requirements)

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

Plain Language Summary ☒ Yes

Attachment B

Updated USGS Map



A:\2022\40439.22\03_DSGN\03_REPT\WWTP PERMIT RENEWAL_NEW FORMS\APPENDICES\APPENDIX D USGS MAP\USGS MAP.DWG, 1/15/2025 10:37:17 AM, RHaden

City of Stinnett Wastewater Treatment Plant Application

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

Parkhill.com

USGS Map

Issue:	New
Date:	1/13/2025
Project No:	40439.22
Sheet:	1 OF 1

Attachment C

Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

City of Stinnett (CN601122179) proposes to operate City of Stinnett Wastewater Treatment Plant (RN102079613), a facultative lagoon and storage pond. The facility will be located at approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136, in Stinnett, Hutchinson County, Texas 79083. This permit is a new application to discharge 200,000 gallons per day of treated wastewater to 160 acres of non-public access land. Effluent will be used for irrigation of 160 acres. This permit will not authorize the discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD_5. Domestic wastewater will be treated by a facultative lagoon and a storage pond.

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

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

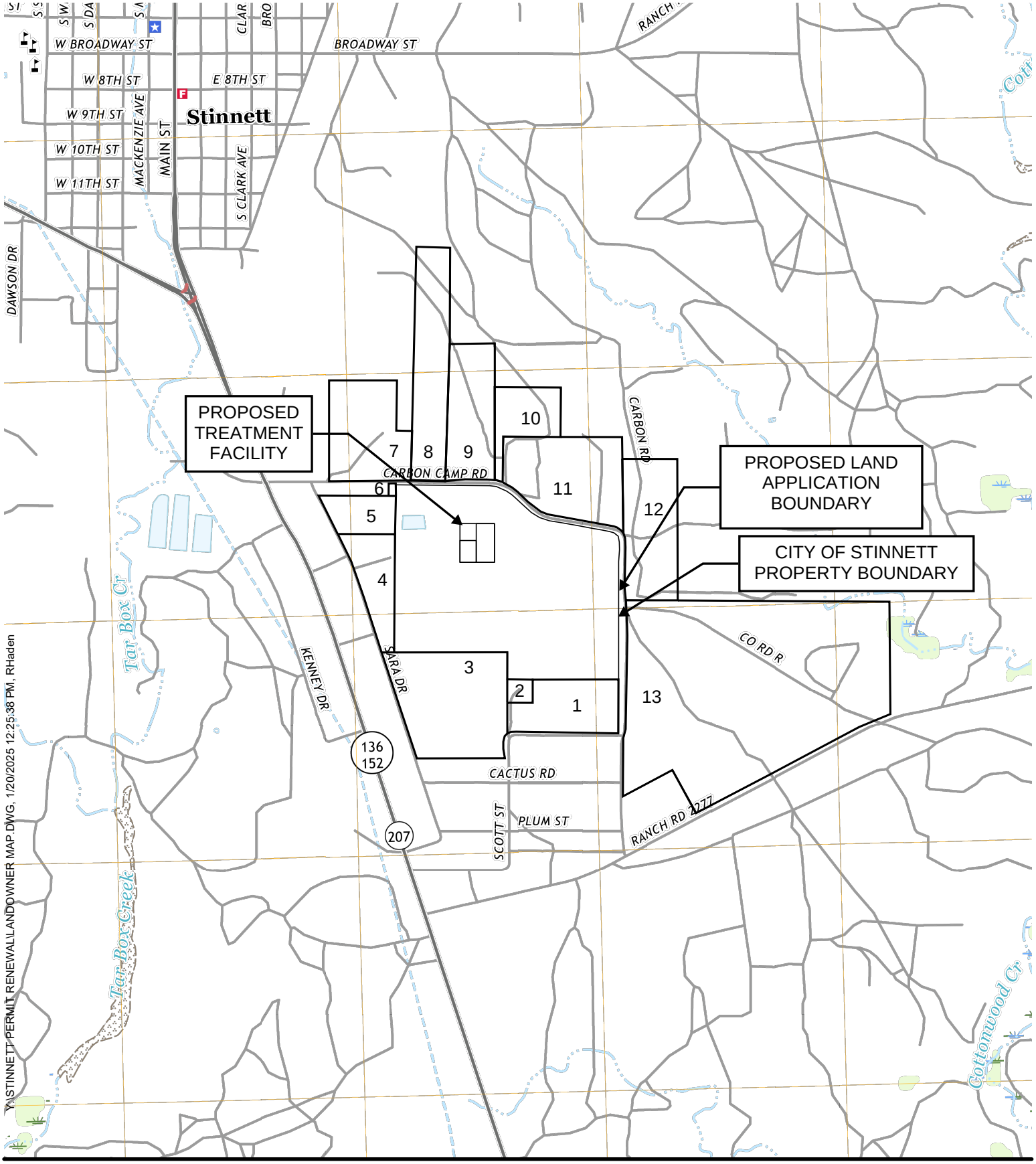
El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar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

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. *<<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 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

Attachment D

Updated Landowner Map



Y:\STINNETT PERMIT RENEWAL\LANDOWNER MAP.DWG, 1/20/2025 12:25:38 PM, RHaden

City of Stinnett Wastewater Treatment Plant Application

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

Parkhill.com

Landowner Map

Issue:	New
Date:	1/13/2025
Project No:	40439.22
Sheet:	1 OF 1

Attachment E

Copy of Application Check

Candice Calhoun

From:	Candice Calhoun
Sent:	Monday, January 27, 2025 9:42 AM
To:	smiller@cityofstinnett.com
Cc:	Paul Krueger; Erwin Madrid
Subject:	Application for Permit No. WQ0010291002 - Notice of Deficiency 30-Day Will Return Letter
Attachments:	WQ0010291002_Will Return Ltr.pdf
Importance:	High

Dear applicant,

The attached Notice of Deficiency 30-Day Will Return Letter was mailed on January 27, 2025, requesting additional information needed to declare the application administratively complete. Please mail an original and two copies (with a cover letter) of the complete response by February 26, 2025.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

Candice Calhoun

From: Paul Krueger <PKrueger@Parkhill.com>
Sent: Monday, January 27, 2025 4:02 PM
To: Candice Calhoun; smiller@cityofstinnett.com
Cc: Roy Haden
Subject: RE: Application for Proposed Permit No. WQ0010291002 - City of Stinnett
Attachments: Landowner Map Appendix E Updated.pdf; Affected Land Owners Avery5160 Template.docx; TYM Energy Hutchinson CAD.png

Mrs. Courville

In response to item 6.ii, please find the attached landowner map, cross reference list, and mailing labels. I have also attached a screenshot of the county appraisal district website, showing the lack of address information for TYM Energy.

Thank you,

Paul Krueger, PE
Civil Engineer

Parkhill
806.473.3715 | Parkhill.com

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Friday, January 24, 2025 2:22 PM
To: Paul Krueger <PKrueger@Parkhill.com>; smiller@cityofstinnett.com
Cc: Roy Haden <rhaden@parkhill.com>
Subject: RE: Application for Proposed Permit No. WQ0010291002 - City of Stinnett

Good afternoon, Mr. Krueger,

Thank you.

Item 1 of the NOD – Application Fee: Thank you, I will also continue to check our reports to see if we have received/entered the check information.

Signature Pages: Yes sir, of course, I will reach out to you Tuesday to let you know if I was able to locate them.

Item 6.ii of the NOD – Mailing Labels: although some may be duplicates, some differ slightly. For example, number 1 on the landowner list is for "Jody Nolan", but number 2 is for "Jody Nolan and Larry Diffield". Also, in the updated landowners list, number 3 is listed for "Edward Allie Nievens", yet in the mailing labels, is only shows "Edward Allie Nievens". The landowner list and mailing labels should match exactly. Please provide updated mailing labels to provide

Candice Calhoun

From: Jeff Goebel <jgoebel@undinellc.com>
Sent: Monday, January 27, 2025 4:44 PM
To: Candice Calhoun
Cc: Erwin Madrid
Subject: RE: Follow-up WQ0015473001
Attachments: A-2 PLS.docx; Municipal Disposal Renewal Spanish NORI.docx; Municipal TPDES and TLAP PLS Form (Spanish).docx; scanner_20250127_173139.pdf

---

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Friday, January 24, 2025 1:35 PM
To: Jeff Goebel <jgoebel@undinellc.com>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Subject: RE: Follow-up WQ0015473001

Good afternoon,

I just wanted to add to Erwins email below. Along with the original paper copy and the fee, the items below are also still needed:

1. Updated Section 9 of the administrative report to correct the site name. Per a previous email, you were not wanting to update the site name, so an updated section to show "Indian Hill Harbor WWTF" is needed.

Site Name is 'The Addie'

2. Updated USGS map to include the one-mile radius as well as to remove the word "proposed" for the applicant and site boundaries.

Please see revised map with correct scale showing 1 mile radius

3. English and Spanish Plain Language Summaries

Attached

4. Technical report and worksheet 3.0

Attached

5. Spanish NORI

Attached

JODY NOLAN
PO BOX 1161
STINNETT TX 79083

JODY NOLAN AND LARRY DIFFIELD
PO BOX 1161
STINNETT TX 79083

BROWN ROBERT ALFRED AND TALLY G
PO BOX 1196
STINNETT TX 79083

LANTELME DEAN R AND RHONDA G
119 SCHOENHALS LN
FRITCH TX 79036

KODIAK OPERATING LLC
2126 N ROCKY TOP DR
BATTLEFIELD MO 65619-8101

CHRISTOPHER AND RACHEL BOGNER
PO BOX 801
STINNETT TX 79083

SANDRA HEFNER
PO BOX 3388
STINNETT TX 79083

SANDRA AND KEITH HEFNER
PO BOX 3388
STINNETT TX 79083

FRANCISCO BARRAZA
414 ROMERO ST
FRITCH TX 79036

DAVID AND DEBBIE WILSON
PO BOX 711
STINNETT TX 79083

Additional Legal Information 3	PLEMONS
Geographic ID	50312-01025-00050-000000
Description	REAL PROPERTY
Agent	999 - UNKNOWN ADDRESS
Category Code	A5 - RES-LEASED GROUND
Total Acres	0.0000

OWNER

Owner ID	R42631
Name	TYM ENERGY
Care of	
Mailing Address	UNKNOWN UNKNOWN
% Ownership	1.000000
Exemptions	

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601122179		RN 102079613

SECTION II: Customer Information

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

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

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

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

City of Stinnett

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

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

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

13. Independently Owned and Operated?
☐ Yes ☒ No

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

☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address: P.O. Box 909

City	Stinnett	State	TX	ZIP	79083	ZIP + 4	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(806) 878-2422		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

City of Stinnett Wastewater Treatment Plant

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

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

25. Description to Physical Location:	approximately 3,000 feet South and 3,500 feet East of intersection of State Highway 152 and State Highway 136				
26. Nearest City			**State**		**Nearest ZIP Code**
Stinnett			TX		79083

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

27. Latitude (N) In Decimal:	35.807708		**28. Longitude (W) In Decimal:**	-101.430633	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
39	48	27.75	-101	25	50.28

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

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

Domestic Wastewater Treatment

34. Mailing Address:	**P.O. Box 909**							
	City	**Stinnett**	**State**	**TX**	**ZIP**	**79083**	**ZIP + 4**	
35. E-Mail Address:	**smiller@cityofstinnett.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(806) 878-2422		( ) -

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

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010291001			

SECTION IV: Preparer Information

40. Name:	Paul Krueger, P.E.	**41. Title:**	Civil Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(806) 473-3715		( ) -	PKrueger@Parkhill.com

SECTION V: Authorized Signature

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

Company:	City of Stinnett	**Job Title:**	City Manager	
Name *(In Print):*	Stacie Miller		**Phone:**	(806) 878- **2422**
Signature:	Stacie Miller		**Date:**	12-19-2024

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010291001

Applicant: City of Stinnett

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): Jeff Irvin

Signatory title: Mayor

Signature: _____ Date: 12-19-24

(Use blue ink)

Subscribed and Sworn to before me by the said Jeffrey L. Irvin

on this 19th day of December, 2024.

My commission expires on the 16th day of August, 2027.

Kellie Scherer

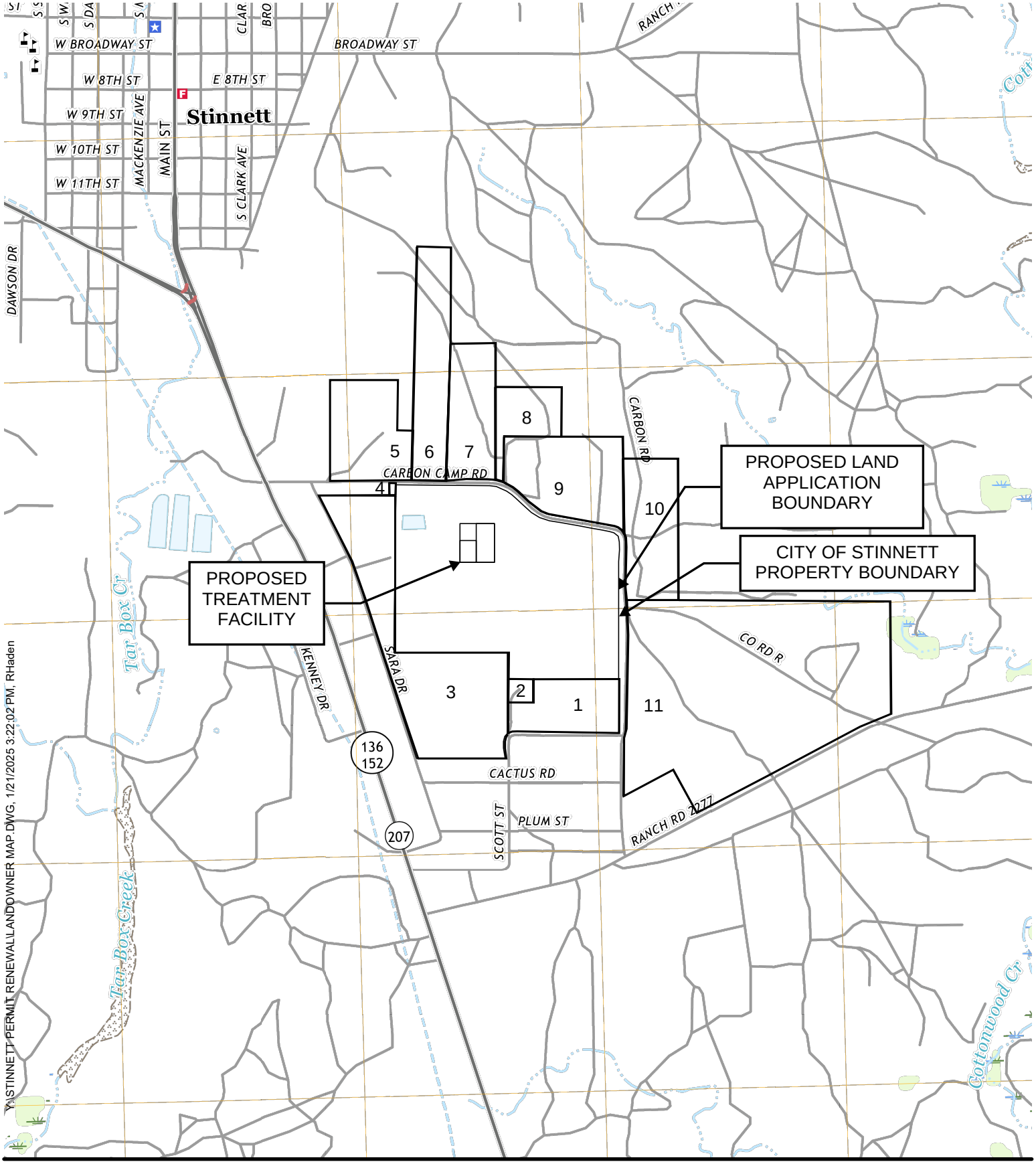
Notary Public

[SEAL]

Hutchinson

County, Texas

KELLIE DAWN SCHERER
Notary ID #134510705
My Commission Expires
August 16, 2027



Y:\STINNETT PERMIT RENEWAL\LANDOWNER MAP.DWG, 1/21/2025 3:22:02 PM, RHaden

City of Stinnett Wastewater Treatment Plant Application

City of Stinnett
P.O. Box 909
Stinnett, TX 79083

Parkhill

Parkhill.com

Landowner Map

Issue:	New
Date:	1/13/2025
Project No:	40439.22
Sheet:	1 OF 1

City of Stinnett, Texas

Affected Landowner's Cross Reference List and Adjoining Properties

1. JODY NOLAN
   PO BOX 1161
   STINNETT TX 79083

2. JODY NOLAN AND LARRY DIFFIELD
   PO BOX 1161
   STINNETT TX 79083

3. LANTELME DEAN R AND RHONDA G
   119 SCHOENHALS LN
   FRITCH TX 79036

4. DAVID AND DEBBIE WILSON
   PO BOX 711
   STINNETT TX 79083

5. FRANCISCO BARRAZA
   414 ROMERO ST
   FRITCH TX 79036

6. KODIAK OPERATING LLC
   2126 N ROCKY TOP DR
   BATTLEFIELD MO 65619-8101

7. CHRISTOPHER AND RACHEL BOGNER
   PO BOX 801
   STINNETT TX 79083

8. SANDRA HEFNER
   PO BOX 3388
   STINNETT TX 79083

9. SANDRA AND KEITH HEFNER
   PO BOX 3388
   STINNETT TX 79083

10. TYM ENERGY
    UNKNOWN

11. BROWN ROBERT ALFRED AND TALLY G
    PO BOX 1196
    STINNETT TX 79083