



# **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

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

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

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

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

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

### ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

City of Dimmitt (CN60024668) operates the City of Dimmitt Wastewater Treatment Plant (RN101920874), an extended aeration facility utilizing an oxidation ditch, six sludge drying beds, two stabilization ponds, a holding pond and a playa basin used as irrigation detention. The facility is located at 0.25 miles north of the intersection of County Road 514 and County Road 614, in Dimmitt, Castro County, Texas 79027. The City of Dimmitt is requesting a renewal of permit WQ0010080001 to dispose of 0.75 MGD via surface irrigation on 477 acres of non-public access land. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD<sub>5</sub>. Domestic wastewater will be treated by extended aeration through an oxidation ditch, six sludge drying beds, two stabilization ponds, a holding pond and a natural playa for irrigation detention.

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010080001

**APPLICATION.** City of Dimmitt, P.O. Box 146, Dimmitt, Texas 79027, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010080001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 750,000 gallons per day via surface irrigation of 477 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 0.25 mile north of the intersection of County Road 514 and County Road 614, in Castro County, Texas 79027. TCEQ received this application on July 7, 2025. The permit application will be available for viewing and copying at Dimmitt City Hall, main entrance, 200 East Jones Street, Dimmitt, in Castro 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=-102.298595,34.559331&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.**

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

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

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

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



provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at [www.tceq.texas.gov/goto/pep](http://www.tceq.texas.gov/goto/pep). Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Dimmitt at the address stated above or by calling Mr. Daniel Jackson, City Manager, at 806-647-2155.

Issuance Date: July 29, 2025



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Dimmitt

PERMIT NUMBER (If new, leave blank): WQ0010080001

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

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Affected Landowners Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPIF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Landowner Disk or Labels	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Summary of Application (PLS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Public Involvement Plan Form	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Technical Report 1.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Design Calculations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 4.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 6.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number \_\_\_\_\_ County \_\_\_\_\_  
Expiration Date \_\_\_\_\_ Region \_\_\_\_\_  
Permit Number \_\_\_\_\_



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION  
ADMINISTRATIVE REPORT 1.0**

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

**Section 1. Application Fees (Instructions Page 26)**

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input checked="" type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

**Payment Information:**

Mailed      Check/Money Order Number:   
Check/Money Order Amount:   
Name Printed on Check:   
EPAY      Voucher Number:   
Copy of Payment Voucher enclosed?      Yes ☐

**Section 2. Type of Application (Instructions Page 26)**

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

- ☒ Publicly Owned Domestic Wastewater  
☐ Privately-Owned Domestic Wastewater  
☐ Conventional Water Treatment

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

- ☒ Active      ☐ Inactive

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

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

d. Check the box next to the appropriate application type

- |   |   |
|---|---|
| <input type="checkbox"/> New                                    |   |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal    | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal    |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input checked="" type="checkbox"/> Renewal without changes     | <input type="checkbox"/> Minor Modification of permit           |

e. For amendments or modifications, describe the proposed changes: N/A

f. For existing permits:

Permit Number: WQ00 10080001

EPA I.D. (TPDES only): TX N/A

Expiration Date: December 1, 2025

### Section 3. Facility Owner (Applicant) and Co-Applciant 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 Dimmitt

*(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: 600249668

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: Sheffy, Scott

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?

Click to enter text.

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

### C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. 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: Mr. Last Name, First Name: Jackson, Daniel  
Title: City Manager Credential: Click to enter text.  
Organization Name: City of Dimmitt  
Mailing Address: PO Box 146 City, State, Zip Code: Dimmitt, TX 79027  
Phone No.: 806-647-2155 E-mail Address: djackson@cityofdimmitt.org  
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 Street 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: Mr. Last Name, First Name: Jackson, Daniel  
Title: City Manager Credential: Click to enter text.  
Organization Name: City of Dimmitt  
Mailing Address: PO Box 146 City, State, Zip Code: Dimmitt, TX 79027  
Phone No.: 806-647-2155 E-mail Address: djackson@cityofdimmitt.org

B. Prefix: Mr. Last Name, First Name: Krueger, Paul  
Title: Civil Engineer Credential: P.E.  
Organization Name: Parkhill  
Mailing Address: 4222 85th Street 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: Mr. Last Name, First Name: Jackson, Daniel  
Title: City Manager Credential: Click to enter text.  
Organization Name: City of Dimmitt  
Mailing Address: PO Box 146 City, State, Zip Code: Dimmitt, TX 79027  
Phone No.: 806-647-2155 E-mail Address: djackson@cityofdimmitt.org

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

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

Prefix: Mr. Last Name, First Name: Jackson, Daniel  
Title: City Manager Credential: Click to enter text.  
Organization Name: City of Dimmitt  
Mailing Address: PO Box 146 City, State, Zip Code: Dimmitt, TX 79027  
Phone No.: 806-647-2155 E-mail Address: djackson@cityofdimmitt.org

## 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 Street 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: Mr.

Last Name, First Name: Jackson, Daniel

Title: City Manager

Credential: Click to enter text.

Organization Name: City of Dimmitt

Mailing Address: PO Box 146

City, State, Zip Code: Dimmitt, TX 79027

Phone No.: 806-647-2155

E-mail Address: djackson@cityofdimmitt.org

**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: Dimmitt City Hall

Location within the building: Main Entrance

Physical Address of Building: 200 E. Jones Street

City: Dimmitt

County: Castro

Contact (Last Name, First Name): Jackson, Daniel

Phone No.: 806-647-2155 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. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

**Attachment:** 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:** N/A

### 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 101920874

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):

City of Dimmitt Wastewater Treatment Plant

C. Owner of treatment facility: City of Dimmitt

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: N/A

Title: N/A

Credential: N/A

Organization Name: City of Dimmitt

Mailing Address: PO Box 146

City, State, Zip Code: Dimmitt, TX 79027

Phone No.: 806-647-2155

E-mail Address: djackson@cityofdimmitt.org

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: [Click to enter text.](#)

Christine

Last Name, First Name: City of Dimmitt and Acker Kevin &

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

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

Organization Name: City of Dimmitt

Mailing Address: 2013 Highway 86

City, State, Zip Code: Nazareth, TX 79063

Phone No.: N/A

E-mail Address: N/A

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:** Appendix K – Landowner Agreement

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

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

Last Name, First Name: N/A

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:

[Click to enter text.](#)

- B. City nearest the disposal site: Dimmitt

- C. County in which the disposal site is located: Castro

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

Effluent is pumped from the storage pond approximately 1.5 miles northeast to the nonpublic access irrigation circle.

- E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Playa holding pond

## 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: USGS Map

## Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010080001

Applicant: City of Dimmitt

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): Scott Sheffy

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 that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- D. Provide the source of the landowners' names and mailing addresses: [Click to enter text.](#)
- 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: WQ0010080001**

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: City of Dimmitt Wastewater Treatment Plant

Physical Address of Project or Site: [Click to enter text.](#)

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

**Staple Check or Money Order in This Space**

# ATTACHMENT 1

## INDIVIDUAL INFORMATION

### Section 1. Individual Information (Instructions Page 41)

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

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

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

Driver's License or State Identification Number: [Click to enter text.](#)

Date of Birth: [Click to enter text.](#)

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

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#) Fax Number: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

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

#### **For Commission Use Only:**

Customer Number:

Regulated Entity Number:

Permit Number:

# DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

## **Things to Know:**

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

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

Electronic Application Submittal ☒ Yes  
*(See application submittal requirements on page 23 of the instructions.)*

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

Summary of Application (in Plain Language) ☒ Yes





# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

---

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

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

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

#### A. Existing/Interim I Phase

Design Flow (MGD): 0.75

2-Hr Peak Flow (MGD): 1.20

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

#### B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### C. Final Phase

Design Flow (MGD): 0.75

2-Hr Peak Flow (MGD): 1.20

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

#### D. Current Operating Phase

Provide the startup date of the facility: 1976

### Section 2. Treatment Process (Instructions Page 42)

#### A. Current Operating Phase

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

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

Extended aeration via an oxidation ditch system with mechanical aerators/rotors, (2) stabilization ponds, holding pond, (6) sludge drying beds, and playa basin (irrigation holding).

## 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)
Oxidation Ditch with Rotors	1	300' x 50' x 6'
Stabilization Ponds	2	500' x 300' x 5'
Holding Pond	1	500' x 200' x 5'
Sludge Drying Beds	6	24' x 20'

## C. Process Flow Diagram

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

**Attachment:** Appendix D: Flow Diagram

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

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

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

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

- Latitude: 34°33'38" N
- Longitude: 102°17'54" W

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 E: Site Drawing**

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

City of Dimmitt, which serves approximately 4,393 people and 2.1 square miles.

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
N/A		Choose an item.	
		Choose an item.	
		Choose an item.	
		Choose an item.	

**Section 4. Unbuilt Phases (Instructions Page 44)**

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

**Section 5. Closure Plans (Instructions Page 44)**

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

## Section 6. Permit Specific Requirements (Instructions Page 44)

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

### A. Summary transmittal

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

☒ Yes ☐ No

If **yes**, provide the date(s) of approval for each phase: Dates are unknown

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*.

Soil monitoring is required on areas receiving land application of treated effluent.

### D. Grit and grease treatment

#### 1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

#### 2. Grit and grease processing

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

Click to enter text.

#### 3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

#### 4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

### E. Stormwater management

#### 1. *Applicability*

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

#### 2. *MSGP coverage*

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

#### 3. *Conditional exclusion*

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

☐ Yes ☐ No



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

Click to enter text.

**4. Existing coverage in individual permit**

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

☐ Yes ☐ No

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

Click to enter text.

**5. Zero stormwater discharge**

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

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

[Click to enter text.](#)

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

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

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

[Click to enter text.](#)

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

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

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

☐ Yes ☒ No

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

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

[Click to enter text.](#)

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

##### 2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

See Appendix F

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , mg/l	66.7	66.7	1	Grab	04/23/2025 @8:45am
Total Suspended Solids, mg/l	77.0	77.0	1	Grab	04/23/2025 @8:45am
Ammonia Nitrogen, mg/l	81	81	1	Grab	04/23/2025 @8:45am
Nitrate Nitrogen, mg/l	1.23	1.23	1	Grab	04/23/2025 @8:45am
Total Kjeldahl Nitrogen, mg/l	228	228	1	Grab	04/23/2025 @8:45am
Sulfate, mg/l	820	820	1	Grab	04/23/2025 @8:45am
Chloride, mg/l	108	108	1	Grab	04/23/2025 @8:45am
Total Phosphorus, mg/l	6.75	6.75	1	Grab	04/23/2025 @8:45am
pH, standard units	8.0@19c	8.0@19c	1	Grab	04/23/2025 @8:45am
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A
Chlorine Residual, mg/l	<0.100		1	Grab	04/23/2025 @8:45am
<i>E.coli</i> (CFU/100ml) freshwater	x	x	1	Grab	04/23/2025 @8:45am
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	1180	1180	1	Grab	04/23/2025 @8:45am
Electrical Conductivity, µmohs/cm, †	2540	2540	1	Grab	04/23/2025 @8:45am
Oil & Grease, mg/l	5.91	5.91	1	Grab	04/23/2025 @8:45am
Alkalinity (CaCO <sub>3</sub> )*, 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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Alkalinity (CaCO <sub>3</sub> ), mg/l	N/A	N/A	N/A	N/A	N/A

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

Facility Operator Name: Atanacio Rios

Facility Operator's License Classification and Level: Class C WWTP Operator

Facility Operator's License Number: WW0043264

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

### A. WWTP's Sewage Sludge or Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

### B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☒ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon

- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: [Click to enter text.](#)

### C. Sewage Sludge or Biosolids Management

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

#### Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	On-Site Owner or Operator	Bulk		N/A: Disposal in Landfill	N/A: Disposal in Landfill
<a href="#">Choose an item.</a>	<a href="#">Choose an item.</a>	<a href="#">Choose an item.</a>		<a href="#">Choose an item.</a>	<a href="#">Choose an item.</a>
<a href="#">Choose an item.</a>	<a href="#">Choose an item.</a>	<a href="#">Choose an item.</a>		<a href="#">Choose an item.</a>	<a href="#">Choose an item.</a>

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

### D. Disposal site

Disposal site name: [City of Dimmitt MSW Landfill](#)

TCEQ permit or registration number: [MSW No. 445A](#)

County where disposal site is located: [Castro](#)

### E. Transportation method

Method of transportation (truck, train, pipe, other): [Other - Landfill is located on adjacent property, no outside roads are used](#)

Name of the hauler:

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

Sludge is transported as a:

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

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

### A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

## B. Sludge processing authorization

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

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of Biosolids	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

☐ Yes ☐ No

## Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

### A. Location information

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

- Original General Highway (County) Map:  
**Attachment:** [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:  
**Attachment:** [Click to enter text.](#)
- Federal Emergency Management Map:  
**Attachment:** [Click to enter text.](#)
- Site map:  
**Attachment:** [Click to enter text.](#)

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

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

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

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

[Click to enter text.](#)

## B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

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

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:



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

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

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

### C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec?

☐ Yes ☐ No

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

[Click to enter text.](#)

### D. Site development plan

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

[Click to enter text.](#)

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)  
**Attachment:** [Click to enter text.](#)
- Copy of the closure plan  
**Attachment:** [Click to enter text.](#)
- Copy of deed recordation for the site  
**Attachment:** [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons  
**Attachment:** [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site  
**Attachment:** [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions  
**Attachment:** [Click to enter text.](#)

### E. Groundwater monitoring

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

☐ Yes ☐ No

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

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

## Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

### A. Additional authorizations

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

☐ Yes ☒ No

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

[Click to enter text.](#)

### B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

[Click to enter text.](#)

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

### A. RCRA hazardous wastes

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

☐ Yes ☒ No

### B. Remediation activity wastewater

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

☐ Yes ☒ No

### C. Details about wastes received

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

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

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

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

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

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

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

### CERTIFICATION:

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

Printed Name: Scott Sheffy

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 56)

#### A. Justification of permit need

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

[Click to enter text.](#)

#### B. Regionalization of facilities

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

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

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

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

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

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: [Click to enter text.](#)

If yes, attach correspondence from the city.

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

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

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

##### 2. *Utility CCN areas*

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

☐ Yes ☐ No

---

<sup>1</sup> <https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater>

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

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

### 3. *Nearby WWTPs or collection systems*

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

☐ Yes ☐ No

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

**Attachment:** [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 58)

Is this facility in operation?

☐ Yes ☐ No

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

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

### A. Current organic loading

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

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

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

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

[Click to enter text.](#)

## B. Proposed organic loading

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

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

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Municipality		
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 <sub>5</sub> from all sources		

## Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

### A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

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: [Click to enter text.](#)

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: [Click to enter text.](#)

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: [Click to enter text.](#)

## Section 4. Design Calculations (Instructions Page 58)

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

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

## Section 5. Facility Site (Instructions Page 59)

### A. 100-year floodplain

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

- ☐ Yes ☐ No

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

[Click to enter text.](#)



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

[Click to enter text.](#)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click to enter text.](#)

#### B. Wind rose

Attach a wind rose: [Click to enter text.](#)

## Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

#### A. Beneficial use authorization

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

☐ Yes ☐ No

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

#### B. Sludge processing authorization

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

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

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

## Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

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

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

- Treatment units and processes dimensions and capacities

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

### Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☐ No

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

Owner of the drinking water supply: [Click to enter text.](#)

Distance and direction to the intake: [Click to enter text.](#)

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

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

### Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

#### A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [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 63)

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

☐ Yes ☐ No

If **yes**, this Worksheet is complete.

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

### Section 4. Description of Immediate Receiving Waters (Instructions Page 63)

Name of the immediate receiving waters: [Click to enter text.](#)

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

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

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

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

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

- ☐ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: [Click to enter text.](#)

#### B. Flow characteristics

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

- ☐ Intermittent - dry for at least one week during most years
- ☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- ☐ Perennial - normally flowing

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

- ☐ USGS flow records
- ☐ Historical observation by adjacent landowners
- ☐ Personal observation
- ☐ Other, specify: [Click to enter text.](#)

### C. Downstream perennial confluences

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

[Click to enter text.](#)

### D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

[Click to enter text.](#)

### E. Normal dry weather characteristics

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

[Click to enter text.](#)

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

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

## Section 5. General Characteristics of the Waterbody (Instructions Page 65)

### A. Upstream influences

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

☐ Oil field activities

☐ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: [Click to enter text.](#)

## B. Waterbody uses

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

- |  |  |
|--|--|
| <input type="checkbox"/> Livestock watering    | <input type="checkbox"/> Contact recreation                                      |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation                                  |
| <input type="checkbox"/> Fishing               | <input type="checkbox"/> Navigation  |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply                                 |
| <input type="checkbox"/> Park activities       | <input type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## C. Waterbody aesthetics

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

### Section 1. General Information (Instructions Page 65)

Date of study: [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 65)

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**

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

## Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: [Click to enter text.](#)

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): [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 67)

Identify the method of land disposal:

- |   |  |
|---|--|
| <input type="checkbox"/> Surface application  | <input type="checkbox"/> Subsurface application                |
| <input checked="" type="checkbox"/> Irrigation  | <input type="checkbox"/> Subsurface soils absorption           |
| <input type="checkbox"/> Drip irrigation system   | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation  | <input type="checkbox"/> Evapotranspiration beds               |
| <input type="checkbox"/> Other (describe in detail): <a href="#">Click to enter text.</a> |  |

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 67)

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

**Table 3.0(1) – Land Application Site Crops**

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Wheat and Cotton - Agricultural	477	750,000	N

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

**Table 3.0(2) – Storage and Evaporation Ponds**

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
N/A	*(1)	*(1)	*(1)	*(2)
*(1) Storage Pond is a natural formed playa lake.				
*(2) Naturally occurring clays present in playa lake				

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

### Section 4. Flood and Runoff Protection (Instructions Page 67)

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

☐ Yes ☒ No

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

Click to enter text.

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

There is currently no 100-year frequency flood plain defined for this portion of Dimmitt. Source is FEMA.

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

A berm is constructed along the site at the lowest point. Irrigation will not occur during wet weather.

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

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment:** Appendix G: 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 68)

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

- 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
363325	Irrigation	Y	Cased	500ft Buffer
1030505	Unused	N	Plugged	Well unused
267634	Irrigation	Y	Cased	500ft Buffer
1030503	Public Supply	Y	Cased	500ft Buffer
1030513	Unused	N	Plugged	Well unused
313234	Domestic	Y	Cased	500ft Buffer
600306	Irrigation	Y	Cased	Buffer
600109	Irrigation	Y	Cased	Buffer
507519	Irrigation	Y	Cased	Buffer
363325	Irrigation	Y	Cased	Buffer
665034	Irrigation	Y	Cased	Buffer
665046	Irrigation	Y	Cased	Buffer
646665	Domestic	Y	Cased	Buffer
1030601	Unused	N	Cased	Buffer
1030602	Unused	N	Cased	Buffer
267634	Irrigation	Y	Cased	Buffer
511876	Irrigation	Y	Cased	Buffer
211542	Injection	Y	Cased	Buffer
39039	Monitor	Y	Cased	Buffer
78039	Environmental Soil Boring	N	Cased	Buffer
9101	Monitor	N	Cased	Buffer
22991	Monitor	N	Cased	Buffer
22989	Monitor	N	Cased	Buffer
24774	Environmental Soil Boring	N	Cased	Buffer

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
1030512	Unused	N	Plugged	Buffer
1030506	Public Supply	Y	Cased	Buffer
1030504	Unused	N	Plugged	Buffer
1030507	Public Supply	Y	Cased	Buffer
13422	Environmental Soil Boring	N	Cased	Buffer
13425	Environmental Soil Boring	N	Cased	Buffer
13424	Environmental Soil Boring	N	Cased	Buffer
7841	Environmental Soil Boring	N	Cased	Buffer
313234	Domestic	Y	Cased	Buffer
1030514	Irrigation	Y	Cased	Buffer
646929	Stock	N	Cased	Buffer
1030606	Irrigation	Y	Cased	Buffers

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

**Attachment:** Appendix H: Well and Map Information

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

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

**Attachment:** Appendix I: 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 69)

### A. Soil map

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

**Attachment:** Appendix J: 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 J: 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
See Appendix J				

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

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
January 2023	0.233	80.7		7.3		
February 2023	0.216	81.5		7.3		
March 2023	0.233	<60.0		7.1		
April 2023	0.205	<60.0		7.4		
*May 2023	0.093	<60.0		7.5		
*June 2023	0.031	<60.0		7.4		

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
July 2023	0.208	65.1		7.4		
August 2023	0.19	50.9		7.6		
September 2023	0.232	45.0		7.6		
October 2023	0.239	66.3		7.5		
November 2023	0.252	30.7		7.6		
December 2023	0.352	18.2		7.8		
January 2024	0.658	35.7		7.4		
February 2024	0.301	42.9		7.4		
March 2024	0.233	37.3		7.2		
April 2024	0.205	84.6		7.3		
May 2024	0.328	17.0		7.4		
June 2024	0.383	52.1		7.1		
July 2024	0.363	22.4		7.2		
August 2024	0.366	66.2		7.3		
September 2024	0.385	38.0		7.2		
October 2024	0.174	15.1		7.3		
November 2024	0.186	20.0		7.6		
December 2024	0.168	13.8		7.8		

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 71)

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

#### A. Irrigation

Area under irrigation, in acres: [Click to enter text.](#)

Design application frequency:

hours/day [Click to enter text.](#) And days/week [Click to enter text.](#)

Land grade (slope):

average percent (%): [Click to enter text.](#)

maximum percent (%): [Click to enter text.](#)

Design application rate in acre-feet/acre/year: [Click to enter text.](#)

Design total nitrogen loading rate, in lbs N/acre/year: [Click to enter text.](#)

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

Method of application: [Click to enter text.](#)

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

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

#### B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: [Click to enter text.](#)

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

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

#### C. Evapotranspiration beds

Number of beds: [Click to enter text.](#)

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

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

Void ratio of soil in the beds: [Click to enter text.](#)

Storage volume within the beds, in acre-feet: [Click to enter text.](#)

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

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



#### D. Overland flow

Area used for application, in acres: [Click to enter text.](#)

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

Design application rate, in gpm/foot of slope width: [Click to enter text.](#)

Slope length, in feet: [Click to enter text.](#)

Design BOD<sub>5</sub> loading rate, in lbs BOD<sub>5</sub>/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 72)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

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

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

### Section 1. Subsurface Application (Instructions Page 73)

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 73)

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

- ☐ Yes ☐ No

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

- ☐ Yes ☐ No

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

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

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

### Section 1. Administrative Information (Instructions Page 74)

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 74)

### 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 74)

#### 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 75)

#### 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 75)

#### 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 75)**

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

### Section 1. Toxic Pollutants (Instructions Page 76)

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

<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
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



<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Epichlorohydrin				---
Ethylbenzene				10
Ethylene Glycol				---
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
4,4'-Isopropylidenediphenol				1
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Methyl tert-butyl ether				---
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

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

## Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

**Table 4.0(2)B – Volatile Compounds**

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

**Table 4.0(2)C – Acid Compounds**

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

**Table 4.0(2)D – Base/Neutral Compounds**

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

<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
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 Equivalenc y Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

### Section 1. Required Tests

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

7-day Chronic: [Click to enter text.](#)

48-hour Acute: [Click to enter text.](#)

### Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

### Section 3. Summary of WET Tests

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

**Table 5.0(1) Summary of WET Tests**

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

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

#### A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

#### B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

**If yes**, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

### C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

### D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If **yes**, complete Section 2.c. and 2.d. only, and skip Section 3.

If **no to either question above**, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

## Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)

### A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

## B. Non-substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

## C. Effluent parameters above the MAL

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

**Table 6.0(1) – Parameters Above the MAL**

Pollutant	Concentration	MAL	Units	Date

## D. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

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

#### A. General information

Company Name: N/A – no industrial users

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

#### B. Process information

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

Click to enter text.

#### C. Product and service information

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

Click to enter text.

#### D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent



#### E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

[Click or tap here to enter text.](#) [Click to enter text.](#)

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

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

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

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

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

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

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

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

#### F. Industrial user interruptions

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

☐ Yes ☐ No

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

[Click to enter text.](#)

# WORKSHEET 7.0

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

For TCEQ Use Only

Reg. No. \_\_\_\_\_

Date Received \_\_\_\_\_

Date Authorized \_\_\_\_\_

#### Section 1. General Information (Instructions Page 90)

**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 WTP 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 Core Data Form

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

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600249668		RN 101920874

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Dimmitt					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>					
PO Box 146					
City	Dimmitt	State	TX	ZIP	79027
ZIP + 4					
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
				djackson@cityofdimmitt.org	

<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number (if applicable)</b>
( 806 ) 647-2155		(   ) -

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)								
City of Dimmitt Wastewater Treatment Plant								
<b>23. Street Address of the Regulated Entity:</b>  (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
<b>24. County</b>	Castro							

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

<b>25. Description to Physical Location:</b>	West side of County Road 515, approximately 0.25 miles north of the intersection of County Road 514 and County Road 614							
<b>26. Nearest City</b>					<b>State</b>	<b>Nearest ZIP Code</b>		
Dimmitt					Tx	79027		
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
<b>27. Latitude (N) In Decimal:</b>		34.5606			<b>28. Longitude (W) In Decimal:</b>		-102.2983	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
34	33	38	102	17	54			
<b>29. Primary SIC Code</b> (4 digits)	<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)		<b>32. Secondary NAICS Code</b> (5 or 6 digits)			
4952			221320					
<b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.)								
Treatment of Domestic Wastewater								
<b>34. Mailing Address:</b>	PO Box 146							
	City	Dimmitt	State	TX	ZIP	79027	ZIP + 4	0146
<b>35. E-Mail Address:</b>		djackson@cityofdimmitt.org						
<b>36. Telephone Number</b>			<b>37. Extension or Code</b>			<b>38. Fax Number (if applicable)</b>		
( 806 ) 647-2155						(   ) -		



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

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
	WQ0010080001			

## **SECTION IV: Preparer Information**

<b>40. Name:</b>	Paul Krueger		<b>41. Title:</b>	Civil Engineer
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>	
( 806 ) 473-2200		( ) -	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.

<b>Company:</b>	City of Dimmitt	<b>Job Title:</b>	City Manager
<b>Name (In Print):</b>	Daniel Jackson	<b>Phone:</b>	( 806 ) 647- 2155
<b>Signature:</b>		<b>Date:</b>	

**Appendix B**  
**Plain Language Summary**



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

### ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

City of Dimmitt (CN60024668) operates the City of Dimmitt Wastewater Treatment Plant (RN101920874), an extended aeration facility utilizing an oxidation ditch, six sludge drying beds, two stabilization ponds, a holding pond and a playa basin used as irrigation detention. The facility is located at 0.25 miles north of the intersection of County Road 514 and County Road 614, in Dimmitt, Castro County, Texas 79027. The City of Dimmitt is requesting a renewal of permit WQ0010080001 to dispose of 0.75 MGD via surface irrigation on 477 acres of non-public access land. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD<sub>5</sub>. Domestic wastewater will be treated by extended aeration through an oxidation ditch, six sludge drying beds, two stabilization ponds, a holding pond and a natural playa for irrigation detention.

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

### **Example 1: Industrial Wastewater TPDES Application (ENGLISH)**

*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.

## **Example 2: Domestic Wastewater TPDES Renewal 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 Texas Administrative Code 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.*

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

## **Example 3: Domestic Wastewater TPDES New 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 Texas Administrative Code 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.*

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

## **Example 4: Domestic Wastewater TLAP Renewal 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 Texas Administrative Code 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.*

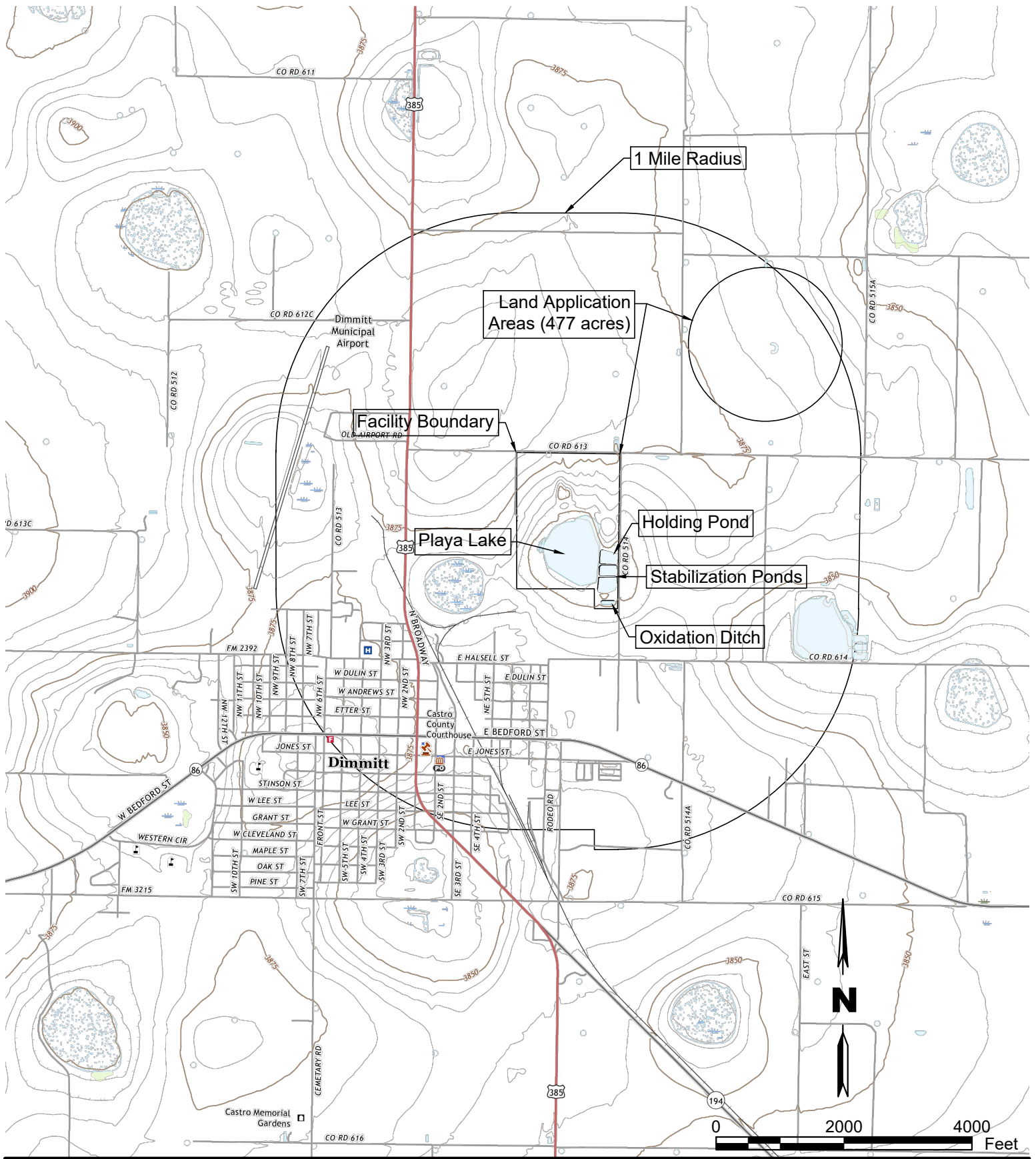
The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD<sub>5</sub>), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.



**Appendix C**  
**USGS Map**



# City of Dimmitt Wastewater Treatment Plant Renewal

City of Dimmitt  
P.O. Box 146  
Dimmitt, TX 79027

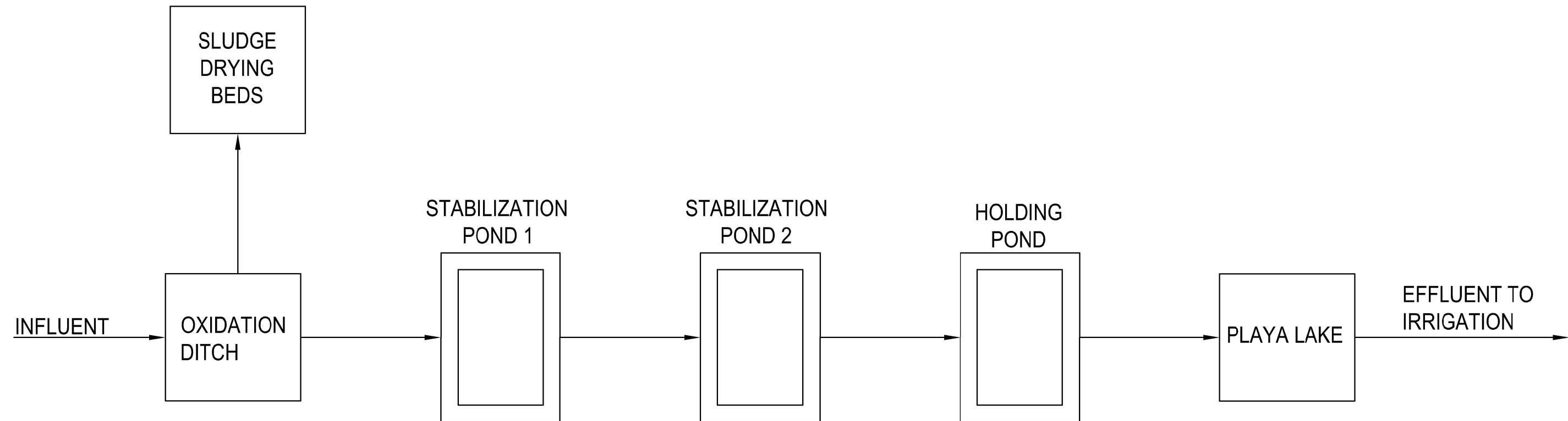
**Parkhill**

Parkhill.com

USGS Map

Issue:	Renewal
Date:	07/01/2025
Project No:	45427.25
Sheet:	1 OF 1

**Appendix D**  
**Flow Diagram**



## City of Dimmitt Wastewater Treatment Plant Flow Diagram

City of Dimmitt  
PO Box 146 Dimmitt, TX 79027-0146



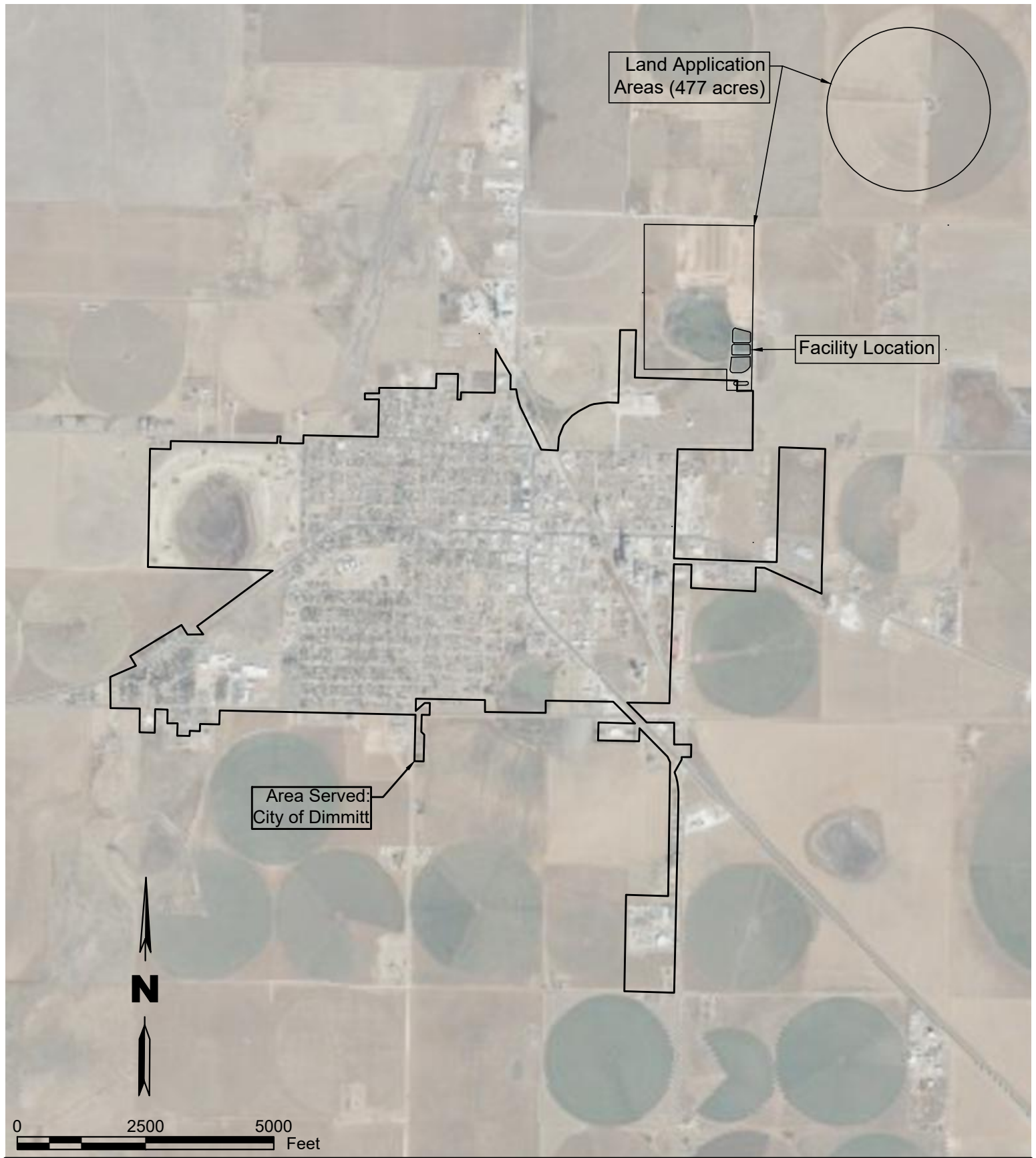
Flow Diagram

Dimmitt WWTP

Issue:	Renewal
Date:	4/2/2025
Project No:	45427.25
Sheet:	1 of 1

## **Appendix E**

### **Site Map**



# City of Dimmitt Wastewater Treatment Plant Renewal

City of Dimmitt  
P.O. Box 146  
Dimmitt, TX 79027

# Parkhill

[Parkhill.com](http://Parkhill.com)

## Site Map

Issue:	Renewal
Date:	07/01/2025
Project No:	45427.25
Sheet:	1 OF 1

**Appendix F**  
**Pollutant Analysis**

*Project*  
**1144711**

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Printed 06/02/2025  
9:36

## TABLE OF CONTENTS

**\*Sample ID: 2401512 Only\***

This report consists of this Table of Contents and the following pages:

<u>Report Name</u>	<u>Description</u>	<u>Pages</u>
1144711_r02_01_ProjectSamples	SPL Kilgore Project P:1144711 C:PHKG Project Sample Cross Reference t:304	2
1144711_r03_03_ProjectResults	SPL Kilgore Project P:1144711 C:PHKG Project Results t:304	7
1144711_r10_05_ProjectQC	SPL Kilgore Project P:1144711 C:PHKG Project Quality Control Groups	9
1144711_r99_09_CoC__1_of_1	SPL Kilgore CoC PHKG 1144711_1_of_1	9
<b>Total Pages:</b>		<b>27</b>







SAMPLE CROSS REFERENCE

Project  
1144711

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Printed 6/2/2025 Page 1 of 2

Sample	Sample ID	Taken	Time	Received
2401512	WW DIMMITT WWTP	04/22/2025	09:46:00	04/23/2025

Email: Kilgore.ProjectManagement@spllabs.com

## SAMPLE CROSS REFERENCE

Project

1144711

Printed

6/2/2025

Page 2 of 2

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Bottle 01 Polyethylene 1/2 gal (White)  
Bottle 02 Polyethylene Quart  
Bottle 03 H2SO4 to pH <2 Glass Qt w/Teflon lined lid  
Bottle 04 16 oz HNO3 Metals Plastic  
Bottle 05 Client supplied H2SO4 plastic  
Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1171641) Volume: 6.00000 mL <== Derived from 05 ( 6 ml )  
Bottle 07 BOD Titration Beaker A (Batch 1171661) Volume: 100.00000 mL <== Derived from 02 ( 100 ml )  
Bottle 08 BOD Analytical Beaker B (Batch 1171661) Volume: 100.00000 mL <== Derived from 02 ( 100 ml )  
Bottle 09 Prepared Bottle: ICP Preparation for Metals (Batch 1171667) Volume: 50.00000 mL <== Derived from 04 ( 50 ml )  
Bottle 10 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1171690) Volume: 20.00000 mL <== Derived from 05 ( 20 ml )

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	01	1171822	04/23/2025	1171822	04/23/2025
EPA 300.0 2.1	01	1172923	04/30/2025	1172923	04/30/2025
EPA 200.7 4.4	09	1171667	04/24/2025	1171820	04/24/2025
SM 5210 B-2016 (TCMP Inhibitor)	02	1171661	04/29/2025	1171661	04/29/2025
SM 2510 B-2011	01	1171737	04/24/2025	1171737	04/24/2025
SM 4500-CI F-2011	01	1171343	04/23/2025	1171343	04/23/2025
EPA 1664B (HEM)	03	1172389	04/28/2025	1172389	04/28/2025
EPA 350.1 2	06	1171641	04/23/2025	1172237	04/28/2025
SM 2540 C-2020	02	1172507	04/28/2025	1172507	04/28/2025
EPA 351.2 2	10	1171690	04/24/2025	1172250	04/28/2025
SM 2540 D-2020	01	1172119	04/24/2025	1172119	04/24/2025
SM 4500-H+ B-2011	01	1171740	04/24/2025	1171740	04/24/2025

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)

Report Page 3 of 28

2600 Dudley Rd. Kilgore, Texas 75662  
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380  
Office: 903-984-0551 \* Fax: 903-984-5914



**PHKG-P**

Page 1 of 7

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed: 06/02/2025

## RESULTS

### Sample Results



Report Page 4 of 28

2600 Dudley Rd. Kilgore, Texas 75662  
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380  
Office: 903-984-0551 \* Fax: 903-984-5914



## PHKG-P

Page 2 of 7

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
1144711

Printed: 06/02/2025

### 2401512 WW DIMMITT WWTP

Received: 04/23/2025

Non-Potable Water

Collected by: Client  
Taken: 04/22/2025

Parkhill  
09:46:00

PO:

EPA 1664B (HEM)

Prepared: 1172389 04/28/2025 12:00:00 Analyzed 1172389 04/28/2025 12:00:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
Oil and Grease (HEM)	5.91	mg/L	4.55			03



Report Page 5 of 28

## PHKG-P

Page 3 of 7

Parkhill  
 Kole Glover  
 800 S Polk St  
 Suite 200  
 Amarillo, TX 79124

Project  
**1144711**

Printed: 06/02/2025

### 2401512 WW DIMMITT WWTP

Received: 04/23/2025

Non-Potable Water

Collected by: Client  
 Taken: 04/22/2025

Parkhill  
 09:46:00

PO:

EPA 200.7 4.4 Prepared: 1171667 04/24/2025 06:00:00 Analyzed 1171820 04/24/2025 11:02:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Phosphorus	6.75	mg/L	0.040		7723-14-0	09

EPA 300.0 2.1 Prepared: 1171822 04/23/2025 23:11:00 Analyzed 1171822 04/23/2025 23:11:00 KRA

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Chloride	108	mg/L	3.00			01
NELAC Nitrate-Nitrogen Total	1.23	mg/L	0.226		14797-55-8	01

EPA 300.0 2.1 Prepared: 1172923 04/30/2025 16:43:00 Analyzed 1172923 04/30/2025 16:43:00 KRA

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Sulfate	820	mg/L	30.0			01

EPA 350.1 2 Prepared: 1171641 04/23/2025 17:26:38 Analyzed 1172237 04/28/2025 06:42:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Ammonia Nitrogen	181	mg/L	2.00			06

EPA 351.2 2 Prepared: 1171690 04/24/2025 08:43:46 Analyzed 1172250 04/28/2025 08:35:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Kjeldahl Nitrogen	228	mg/L	5.00		7727-37-9	10

SM 2510 B-2011 Prepared: 1171737 04/24/2025 06:00:00 Analyzed 1171737 04/24/2025 06:00:00 JMJ

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Lab Spec. Conductance at 25 C	2540	umhos/cm				01

SM 2540 C-2020 Prepared: 1172507 04/28/2025 09:25:00 Analyzed 1172507 04/28/2025 09:25:00 JMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Dissolved Solids	1180	mg/L	50.0			02



**PHKG-P**

Page 4 of 7

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed: 06/02/2025

**2401512 WW DIMMITT WWTP**

Received: 04/23/2025

Non-Potable Water

Collected by: Client  
Taken: 04/22/2025

Parkhill  
09:46:00

PO:

SM 2540 D-2020 Prepared: 1172119 04/24/2025 13:50:00 Analyzed 1172119 04/24/2025 13:50:00 ADR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Suspended Solids	77.0	mg/L	20.0			01

SM 4500-Cl F-2011 Prepared: 1171343 04/23/2025 11:20:00 Analyzed 1171343 04/23/2025 11:20:00 ANC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cl2 Residual,Total(Lab)Titration	<0.100	mg/L	0.100			01

SM 4500-H+ B-2011 Prepared: 1171740 04/24/2025 04:40:00 Analyzed 1171740 04/24/2025 04:40:00 JMJ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Laboratory pH	8.0@19c	SU	2.00			01

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1171661 04/24/2025 Analyzed 1171661 04/29/2025 10:18:47 ESN

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	BOD Carbonaceous	66.7	mg/L	15.0			02

**Sample Preparation**

**2401506 WW NAZARETH WWTP**

Received: 04/23/2025

04/22/2025

Prepared: 04/23/2025 10:17:33 Calculated 04/23/2025 10:17:33 CAL

z Enviro Fee (per Sampling Group) Verified

EPA 1664B (HEM) Prepared: 1172271 04/28/2025 12:00:00 Analyzed 1172271 04/28/2025 12:00:00 BEK

NELAC O&G HEM Started Started



2600 Dudley Rd. Kilgore, Texas 75662  
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380  
Office: 903-984-0551 \* Fax: 903-984-5914



Page 5 of 7

**PHKG-P**

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed: 06/02/2025



Report Page 8 of 28

**PHKG-P**

Page 6 of 7

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed: 06/02/2025

**2401512** WW DIMMITT WWTP

Received: 04/23/2025

04/22/2025

EPA 1664B (HEM)		Prepared: 1172271	04/28/2025	12:00:00	Analyzed 1172271	04/28/2025	12:00:00	BEK
NELAC	O&G HEM Started	Started						
EPA 200.2 2.8		Prepared: 1171667	04/24/2025	06:00:00	Analyzed 1171667	04/24/2025	06:00:00	HLT
z	Liquid Metals Digestion	50/50	ml		04			
EPA 350.1, Rev. 2.0		Prepared: 1171641	04/23/2025	17:26:38	Analyzed 1171641	04/23/2025	17:26:38	JR1
NELAC	Ammonia Distillation	6/6	ml		05			
EPA 351.2, Rev 2.0		Prepared: 1171690	04/24/2025	08:43:46	Analyzed 1171690	04/24/2025	08:43:46	MEG
NELAC	TKN Block Digestion	20/20	ml		05			
SM 2540 C-2015		Prepared: 1172187	04/28/2025	09:25:00	Analyzed 1172187	04/28/2025	09:25:00	JMB
NELAC	Total Dissolved Solids Started	Started						
SM 2540 D-2011		Prepared: 1171670	04/24/2025	13:50:00	Analyzed 1171670	04/24/2025	13:50:00	ADR
NELAC	TSS Set Started	Started						
SM 5210 B-2016 (TCMP Inhibitor)		Prepared: 1171661	04/24/2025		Analyzed 1171661	04/24/2025	06:51:46	ESN
NELAC	BODc Set Started	Started						





## PHKG-P

Page 7 of 7

Parkhill  
 Kole Glover  
 800 S Polk St  
 Suite 200  
 Amarillo, TX 79124

Project  
**1144711**

Printed: 06/02/2025

**2401512 WW DIMMITT WWTP**

Received: 04/23/2025

04/22/2025

SUB Lab	Prepared:	04/22/2025	12:25:00	Analyzed	04/22/2025	12:25:00	SUB
---------	-----------	------------	----------	----------	------------	----------	-----

NELAC	E.Coli WW MPN Panhandle (SUB)	See Attached	EMLC
-------	-------------------------------	--------------	------

Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

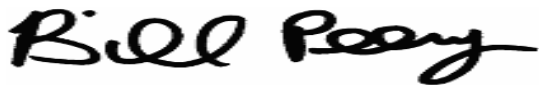
Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation

z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.



Bill Peery, MS, VP Technical Services



# QUALITY CONTROL



Page 1 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

Analytical Set

1171661

SM 5210 B-2016 (TCMP Inhibitor)

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1171661	0.2	0.200	0.500	mg/L	127531443
BOD Carbonaceous	1171661	0.2	0.200	0.500	mg/L	127534205

### Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
BOD Carbonaceous	2401506	34.0	31.6	mg/L	7.32	30.0
BOD Carbonaceous	2401578	4.57	4.53	mg/L	0.879	30.0
BOD Carbonaceous	2401873	6.35	6.31	mg/L	0.632	30.0
BOD Carbonaceous	2402144	3.71	2.59	mg/L	35.6 *	30.0

### Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1171661	0.237	0.200	0.500	mg/L	127531445
BOD Carbonaceous	1171661	0.393	0.200	0.500	mg/L	127534207

### Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		211	198	mg/L	107	83.7 - 116	127531446
BOD Carbonaceous		213	198	mg/L	108	83.7 - 116	127534208

Analytical Set

1171872

EPA 351.2 2

### AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	0.054	0.050	mg/L	108	75.0 - 125	127536028

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1171690	ND	0.00712	0.050	mg/L	127536025

### CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.26	5.00	mg/L	105	90.0 - 110	127535954
Total Kjeldahl Nitrogen	5.45	5.00	mg/L	109	90.0 - 110	127535965
Total Kjeldahl Nitrogen	5.41	5.00	mg/L	108	90.0 - 110	127535976
Total Kjeldahl Nitrogen	5.47	5.00	mg/L	109	90.0 - 110	127535987
Total Kjeldahl Nitrogen	5.45	5.00	mg/L	109	90.0 - 110	127535998
Total Kjeldahl Nitrogen	5.39	5.00	mg/L	108	90.0 - 110	127536009
Total Kjeldahl Nitrogen	5.50	5.00	mg/L	110	90.0 - 110	127536020
Total Kjeldahl Nitrogen	5.48	5.00	mg/L	110	90.0 - 110	127536024
Total Kjeldahl Nitrogen	5.19	5.00	mg/L	104	90.0 - 110	127536029
Total Kjeldahl Nitrogen	5.30	5.00	mg/L	106	90.0 - 110	127536039
Total Kjeldahl Nitrogen	5.24	5.00	mg/L	105	90.0 - 110	127536048
Total Kjeldahl Nitrogen	5.13	5.00	mg/L	103	90.0 - 110	127536055

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 11 of 28

# QUALITY CONTROL



## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Page 2 of 9

Project  
**1144711**

Printed 06/02/2025

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Kjeldahl Nitrogen	2401622	0.297	0.306	mg/L	2.99	20.0
Total Kjeldahl Nitrogen	2401623	0.299	0.293	mg/L	2.03	20.0

ICV						
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Kjeldahl Nitrogen	5.19	5.00	mg/L	104	90.0 - 110	127535953

LCS Dup										
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Total Kjeldahl Nitrogen	1171690	5.38	5.32	5.00	90.0 - 110	108	106	mg/L	1.12	20.0

Mat. Spike								
<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Unknown</u>	<u>Known</u>	<u>Units</u>	<u>Recovery %</u>	<u>Limits %</u>	<u>File</u>
Total Kjeldahl Nitrogen	2401622	5.87	0.306	5.00	mg/L	111	80.0 - 120	127536032
Total Kjeldahl Nitrogen	2401623	5.99	0.293	5.00	mg/L	114	80.0 - 120	127536035

Analytical Set

1171942

EPA 350.1 2

Blank						
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Ammonia Nitrogen	1171641	ND	0.00336	0.020	mg/L	127537401

CCV						
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127537304
Ammonia Nitrogen	2.03	2.00	mg/L	102	90.0 - 110	127537313
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127537322
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127537331
Ammonia Nitrogen	2.01	2.00	mg/L	100	90.0 - 110	127537342
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127537348
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	127537356
Ammonia Nitrogen	2.08	2.00	mg/L	104	90.0 - 110	127537367
Ammonia Nitrogen	2.04	2.00	mg/L	102	90.0 - 110	127537377
Ammonia Nitrogen	1.96	2.00	mg/L	98.0	90.0 - 110	127537381
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127537392
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	127537399
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	127537400
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127537409
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127537418
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127537428
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127537439
Ammonia Nitrogen	2.12	2.00	mg/L	106	90.0 - 110	127537449
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	127537460
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127537469

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 12 of 28

# QUALITY CONTROL



## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Page 3 of 9

Project  
**1144711**

Printed 06/02/2025

Duplicate						
Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2401099	2.25	2.20	mg/L	2.25	20.0
Ammonia Nitrogen	2401321	0.198	0.174	mg/L	12.9	20.0

ICV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127537303

LCS Dup										
<i>Parameter</i>	<i>PrepSet</i>	<i>LCS</i>	<i>LCSD</i>	<i>Known</i>	<i>Limits%</i>	<i>LCS%</i>	<i>LCSD%</i>	<i>Units</i>	<i>RPD</i>	<i>Limit%</i>
Ammonia Nitrogen	1171641	2.16	2.16	2.00	90.0 - 110	108	108	mg/L	0	20.0

Mat. Spike									
Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen	2401099	3.62	2.20	2.00	mg/L	71.0	80.0 - 120	127537406	*
Ammonia Nitrogen	2401321	2.51	0.174	2.00	mg/L	117	80.0 - 120	127537410	

Analytical Set

1172237

EPA 350.1 2

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1171641	ND	0.00336	0.020	mg/L	127543899

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127543891
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127543900
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	127543911
Ammonia Nitrogen	2.03	2.00	mg/L	102	90.0 - 110	127543919
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127543930
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	127543940
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127543948
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127543953
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127543958

Duplicate						
Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2401099	2.51	2.52	mg/L	0.398	20.0

ICV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127543890

LCS Dup										
<i>Parameter</i>	<i>PrepSet</i>	<i>LCS</i>	<i>LCSD</i>	<i>Known</i>	<i>Limits%</i>	<i>LCS%</i>	<i>LCSD%</i>	<i>Units</i>	<i>RPD</i>	<i>Limit%</i>
Ammonia Nitrogen	1171641	2.16	2.19	2.00	90.0 - 110	108	110	mg/L	1.38	20.0

Mat. Spike									
Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen	2401099	4.74	2.52	2.00	mg/L	111	80.0 - 120	127543905	

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 13 of 28

# QUALITY CONTROL



Page 4 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

Analytical Set

1172250

EPA 351.2 2

### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Kjeldahl Nitrogen	1171690	ND	0.00712	0.050	mg/L	127544376

### CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Kjeldahl Nitrogen	5.50	5.00	mg/L	110	90.0 - 110	127544371
Total Kjeldahl Nitrogen	5.41	5.00	mg/L	108	90.0 - 110	127544372
Total Kjeldahl Nitrogen	5.40	5.00	mg/L	108	90.0 - 110	127544373
Total Kjeldahl Nitrogen	5.46	5.00	mg/L	109	90.0 - 110	127544374
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	127544375
Total Kjeldahl Nitrogen	5.49	5.00	mg/L	110	90.0 - 110	127544379
Total Kjeldahl Nitrogen	5.38	5.00	mg/L	108	90.0 - 110	127544387
Total Kjeldahl Nitrogen	5.47	5.00	mg/L	109	90.0 - 110	127544388
Total Kjeldahl Nitrogen	5.37	5.00	mg/L	107	90.0 - 110	127544391

### Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Kjeldahl Nitrogen	2401622	0.336	0.317	mg/L	5.82	20.0

### ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	127544370

### LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Total Kjeldahl Nitrogen	1171690	5.08	4.98	5.00	90.0 - 110	102	99.6	mg/L	1.99	20.0

### Mat. Spike

<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Unknown</u>	<u>Known</u>	<u>Units</u>	<u>Recovery %</u>	<u>Limits %</u>	<u>File</u>
Total Kjeldahl Nitrogen	2401622	5.52	0.317	5.00	mg/L	104	80.0 - 120	127544382

Analytical Set

1172119

SM 2540 D-2020

### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Suspended Solids	1172119	ND	2	2	mg/L	127541472

### ControlBlk

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Suspended Solids	1172119	0.0002			grams	127541471

### Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Suspended Solids	2401529	4500	4680	mg/L	3.92	20.0
Total Suspended Solids	2401530	5360	5560	mg/L	3.66	20.0
Total Suspended Solids	2401595	6840	6880	mg/L	0.583	20.0

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 14 of 28

# QUALITY CONTROL



Page 5 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

### LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Total Suspended Solids	1172119	45.0	50.0	mg/L	90.0	90.0 - 110	127541505

### Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Suspended Solids		98.0	100	mg/L	98.0	90.0 - 110	127541504

Analytical Set **1172389**

EPA 1664B (HEM)

### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Oil and Grease (HEM)	1172389	ND	0.804	4.00	mg/L	127546214

### ControlBlk

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Oil and Grease (HEM)	1172389	-0.0001			grams	127546213
Oil and Grease (HEM)	1172389	0.0004			grams	127546228

### LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Oil and Grease (HEM)	1172389	36.4	40.0	mg/L	91.0	78.0 - 114	127546215

### MS

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Oil and Grease (HEM)	2401564	37.8	0	ND	40.0	78.0 - 114	94.5		mg/L		20.0

Analytical Set **1172490**

SM 2540 C-2020

### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Dissolved Solids	1172490	ND	5.00	5.00	mg/L	127547717

### ControlBlk

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Dissolved Solids	1172490	-0.0002			grams	127547704

### Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Dissolved Solids	2401414	640	650	mg/L	1.55	20.0

### LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Total Dissolved Solids	1172490	192	200	mg/L	96.0	85.0 - 115	127547705

Analytical Set **1172507**

SM 2540 C-2020

### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Dissolved Solids	1172507	ND	5.00	5.00	mg/L	127547886

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 15 of 28

# QUALITY CONTROL



Page 6 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

### ControlBlk

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Dissolved Solids	1172507	0.0001			grams	127547873

### Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Dissolved Solids	2401512	1210	1180	mg/L	2.51	20.0

### LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>
Total Dissolved Solids	1172507	192	200	mg/L	96.0	85.0 - 115	127547874

Analytical Set

1171822

EPA 300.0 2.1

### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Chloride	1171822	ND	0.0593	0.300	mg/L	127534826
Nitrate-Nitrogen Total	1171822	ND	0.00331	0.0226	mg/L	127534826
Sulfate	1171822	ND	0.0605	0.300	mg/L	127534826

### CCB

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Chloride	1171822	0.034	0.0593	0.300	mg/L	127534823
Chloride	1171822	0.042	0.0593	0.300	mg/L	127534843
Chloride	1171822	0.032	0.0593	0.300	mg/L	127534855
Nitrate-Nitrogen Total	1171822	0	0.00331	0.0226	mg/L	127534823
Nitrate-Nitrogen Total	1171822	0.0111	0.00331	0.0226	mg/L	127534843
Nitrate-Nitrogen Total	1171822	0.0115	0.00331	0.0226	mg/L	127534855
Sulfate	1171822	-0.161	0.0605	0.300	mg/L	127534823
Sulfate	1171822	-0.156	0.0605	0.300	mg/L	127534843
Sulfate	1171822	-0.158	0.0605	0.300	mg/L	127534855

### CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Chloride	9.77	10.0	mg/L	97.7	90.0 - 110	127534822
Chloride	10.1	10.0	mg/L	101	90.0 - 110	127534842
Chloride	10.0	10.0	mg/L	100	90.0 - 110	127534854
Nitrate-Nitrogen Total	2.36	2.26	mg/L	104	90.0 - 110	127534822
Nitrate-Nitrogen Total	2.48	2.26	mg/L	110	90.0 - 110	127534842
Nitrate-Nitrogen Total	2.40	2.26	mg/L	106	90.0 - 110	127534854
Sulfate	9.75	10.0	mg/L	97.5	90.0 - 110	127534822
Sulfate	10.1	10.0	mg/L	101	90.0 - 110	127534842
Sulfate	10.0	10.0	mg/L	100	90.0 - 110	127534854

### LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride	1171822	4.91	5.02	5.00	85.0 - 115	98.2	100	mg/L	2.22	20.0
Nitrate-Nitrogen Total	1171822	1.13	1.17	1.13	86.3 - 117	100	104	mg/L	3.48	20.0
Sulfate	1171822	5.48	5.65	5.00	85.4 - 124	110	113	mg/L	3.05	20.0

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 16 of 28

# QUALITY CONTROL



Page 7 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

### MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	2399946	212	211	163	50.0	80.0 - 120	98.0	96.0	mg/L	2.06	20.0
Nitrate-Nitrogen Total	2399946	8.09	8.08	1.35	11.3	80.0 - 120	59.6 *	59.6 *	mg/L	0.148	20.0
Sulfate	2399946	177	176	127	50.0	80.0 - 120	100	98.0	mg/L	2.02	20.0
Chloride	2400215	162	167	119	50.0	80.0 - 120	86.0	96.0	mg/L	11.0	20.0
Nitrate-Nitrogen Total	2400215	10.6	10.7	ND	11.3	80.0 - 120	93.8	94.7	mg/L	0.939	20.0
Sulfate	2400215	187	195	140	50.0	80.0 - 120	94.0	110	mg/L	15.7	20.0

Analytical Set

1172923

EPA 300.0 2.1

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfate	1172923	ND	0.0605	0.300	mg/L	127556459

### CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfate	1172923	-0.200	0.0605	0.300	mg/L	127556455
Sulfate	1172923	-0.211	0.0605	0.300	mg/L	127556475
Sulfate	1172923	-0.182	0.0605	0.300	mg/L	127556487

### CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Sulfate	10.0	10.0	mg/L	100	90.0 - 110	127556454
Sulfate	10.1	10.0	mg/L	101	90.0 - 110	127556474
Sulfate	10.2	10.0	mg/L	102	90.0 - 110	127556486

### LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfate	1172923	5.59	5.46	5.00	85.4 - 124	112	109	mg/L	2.35	20.0

### MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfate	2401648	44.9	46.9	34.3	10.0	80.0 - 120	106	126 *	mg/L	17.2	20.0
Sulfate	2401649	38.5	38.0	26.5	10.0	80.0 - 120	120	115	mg/L	4.26	20.0

Analytical Set

1171820

EPA 200.7 4.4

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus	1171667	ND	0.0353	0.040	mg/L	127534739

### CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	0.962	1.00	mg/L	96.2	90.0 - 110	127534737
Phosphorus	1.01	1.00	mg/L	101	90.0 - 110	127534738
Phosphorus	1.04	1.00	mg/L	104	90.0 - 110	127534748
Phosphorus	1.06	1.00	mg/L	106	90.0 - 110	127534757
Phosphorus	1.08	1.00	mg/L	108	90.0 - 110	127534762

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 17 of 28



# QUALITY CONTROL



Page 8 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

### ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	25.0	25.0	mg/L	100	95.0 - 105	127534735

### ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.02	1.00	mg/L	102	90.0 - 110	127534736

### LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1171667	4.20	4.21	4.00	85.0 - 115	105	105	mg/L	0.238	25.0

### MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	2401145	4.33	4.36	0.0476	4.00	75.0 - 125	107	108	mg/L	0.698	25.0
Phosphorus	2401567	4.37	4.37	0.119	4.00	75.0 - 125	106	106	mg/L	0	25.0

Analytical Set 1171343

SM 4500-CI F-2011

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cl2 Residual, Total(Lab)Titration	1171343	ND	0.100	0.100	mg/L	127526643

### Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cl2 Residual, Total(Lab)Titration	2399683	2.25	2.27	mg/L	0.885	20.0

Analytical Set 1171737

SM 2510 B-2011

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Lab Spec. Conductance at 25 C	1171737	0.804			umhos/cm	127533681

### Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Lab Spec. Conductance at 25 C	2400973	163	164	umhos/cm	0.612	20.0
Lab Spec. Conductance at 25 C	2401644	1.24	1.24	umhos/cm	0	20.0

### ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	13100	12900	umhos/cm	102	90.0 - 110	127533684

### Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	1171737	1410	1410	umhos/cm	100	90.0 - 110	127533682
Lab Spec. Conductance at 25 C	1171737	101	100	umhos/cm	101	90.0 - 110	127533683
Lab Spec. Conductance at 25 C	1171737	1420	1410	umhos/cm	101	90.0 - 110	127533696
Lab Spec. Conductance at 25 C	1171737	1420	1410	umhos/cm	101	90.0 - 110	127533705

Analytical Set 1171740

SM 4500-H+ B-2011

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 18 of 28

# QUALITY CONTROL



Page 9 of 9

## PHKG-P

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

Project  
**1144711**

Printed 06/02/2025

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Laboratory pH	2401506	9.00	9.00	SU	0	20.0
Standard						
<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>
Laboratory pH	1171740	6.04	6.00	SU	101	90.0 - 110
Laboratory pH	1171740	8.01	8.00	SU	100	90.0 - 110
Laboratory pH	1171740	6.07	6.00	SU	101	90.0 - 110
Laboratory pH	1171740	7.98	8.00	SU	99.8	90.0 - 110

\* Out RPD is Relative Percent Difference:  $\text{abs}(r_1 - r_2) / \text{mean}(r_1, r_2) * 100\%$

Recover% is Recovery Percent:  $\text{result} / \text{known} * 100\%$

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); ICV - Initial Calibration Verification; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); CCB - Continuing Calibration Blank; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.)

Email: [Kilgore.ProjectManagement@spllabs.com](mailto:Kilgore.ProjectManagement@spllabs.com)



Report Page 19 of 28

1144711 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662  
Office: 903-984-0551 \* Fax: 903-984-5914



**SPL**  
The Science of Sure

Printed 04/14/2025

Page 1 of 3

# CHAIN OF CUSTODY

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

**PHKG-P**  
**103**

Lab Number 2401512  
PO Number \_\_\_\_\_  
Phone 806/376-8600

www.Dimmitt WWT

☐ Hand Delivered by Client to Region or LAB

★Dropped off @ sub Lab EML★

**Matrix: Non-Potable Water**

Sample Collection Start

Date: 4/22/25 Time: 9:46

Sampler Printed Name: Roy Hoken

Sampler Affiliation: PHKG

Sampler Signature: Roy Hoken

Samples Radioactive? ☐

Samples Contains Dioxin? ☐

Samples Biological Hazard? ☐

1 On Site Testing

Cl2c Cl2 Res(Total) Analyzed by client

Cl2 Res(Total) Analyzed by client

Collected By RH Date 4/22/25 Time 9:46 Analyzed By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Results \_\_\_\_\_ Units \_\_\_\_\_ Temp. \_\_\_\_\_ C Duplicate \_\_\_\_\_ Units \_\_\_\_\_ Temp. \_\_\_\_\_ C

R1 \_\_\_\_\_ R2 \_\_\_\_\_ QC R1 \_\_\_\_\_ QC R2 \_\_\_\_\_

pHCl pH Client Provided

SM 4500-H+ B-2011

pH Client Provided

Collected By RH Date 4/22/25 Time 9:46 Analyzed By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Results \_\_\_\_\_ Units \_\_\_\_\_ Temp. \_\_\_\_\_ C Duplicate \_\_\_\_\_ Units \_\_\_\_\_ Temp. \_\_\_\_\_ C

1 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized



Panhandle Region: 3350 Olsen Blvd. Ste 1700 Amarillo TX 79109

Form rptcoc1SPL1 Created 12/13/2019 v1.0

Report Page 23 of 28

1144711 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662  
Office: 903-984-0551 \* Fax: 903-984-5914



**SPL**  
The Science of Surface

Printed 04/14/2025

Page 2 of 3

## CHAIN OF CUSTODY

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

**PHKG-P**  
**103**

NELAC Short Hold Subco ECPH E.Coli WW MPN Panhandle (SUB) SUB Lab CAS:EMLC (0.333 days)

### 2 H2SO4 to pH <2 GIQt w/Tef-lined lid

NELAC HEM Oil and Grease (HEM) EPA 1664B (HEM) (28.0 days)

### 1 Polyethylene 1/2 gal (White)

NELAC Short Hold BODc BOD Carbonaceous SM 5210 B-2016 (TCMP Inhibitor) (2.04 days)

NELAC TSS Total Suspended Solids SM 2540 D-2015 (7.00 days)

### 0 Z -- No bottle required

SKL Sub Hold: PM Attn

### 1 HNO3 to pH <2 Polyethylene 500 mL for Metals

NELAC \*PI Phosphorus EPA 200.7 4.4 CAS:7723-14-0 (180 days)

301L Liquid Metals Digestion EPA 200.2 2.8 (180 days)

### 1 H2SO4 to pH <2 250 ml Polyethylene

NELAC NHaN Ammonia Nitrogen EPA 350.1 2 (28.0 days)

NELAC TKN Total Kjeldahl Nitrogen EPA 351.2 2 CAS:7727-37-9 (28.0 days)

### 1 Polyethylene Quart

NELAC ICIL Chloride EPA 300.0 2.1 (28.0 days)

NELAC Short Hold IN3L Nitrate-Nitrogen Total EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)

NELAC IS4L Sulfate EPA 300.0 2.1 (28.0 days)

NELAC CONL Lab Spec. Conductance at 25 C SM 2510 B-2011 (28.0 days)

NELAC TDS Total Dissolved Solids SM 2540 C-2015 (7.00 days)

Ambient Conditions/Comments



Panhandle Region: 3350 Olsen Blvd. Ste 1700 Amarillo TX 79109

1144711 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662  
Office: 903-984-0551 \* Fax: 903-984-5914



**SPL**  
The Science of Sure

Printed 04/14/2025

Page 3 of 3

## CHAIN OF CUSTODY

Parkhill  
Kole Glover  
800 S Polk St  
Suite 200  
Amarillo, TX 79124

PHKG-P  
103

Date	Time	Relinquished		Received	
4/22/25	11:23	Printed Name <i>Roy Haden</i>	Affiliation PHKG	Printed Name <i>Derek Craig</i>	Affiliation SPL
		Signature <i>[Signature]</i>		Signature <i>[Signature]</i>	
4-22-25	1800	Printed Name <i>Derek Craig</i>	Affiliation SPL	Printed Name <i>[Signature]</i>	Affiliation
		Signature <i>[Signature]</i>		Signature	
4/22/25	0900	Printed Name <i>[Signature]</i>	Affiliation	Printed Name Andy Owens - SPL, Inc.	Affiliation
		Signature		Signature <i>[Signature]</i>	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? ☒ Yes ☐ NoCooler/Sample Secure? ☒ Yes ☐ No

If Shipped: Tracking Number &amp; Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAP, or Z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments



1144711 CoC Print Group 001 of 001



## COOLER CHECKIN

Region/Driver/Client

Perhardsle

Date / Time:

4/23 1 0900

Cooler:

of

Shipping Company:

XPS

Temp Label:

4/23 0900		
Date	Time	Tech
Temp:	1.7 / 1.9	C
Therm#: 7242 Corr Fact: -0.3 C		

1144711 CoC Print Group 001 of 001

*★ Dropped off @ sub lab EML ★*  
 Environmental Monitoring Laboratory ♦ P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 ♦ Phone: (254) 582-2622

Page 1 of 1



TCEQ Lab ID: T104704247

## Purchase Order / Chain of Custody

EPA Lab ID: TX01547

Panhandle Division  
 13260 South US Hwy 287 Amarillo, Texas 79118  
 Office: 806-335-9393 Emergency: 806-786-0612

Southwest Division  
 811 E. Young Street Llano, Texas 78643  
 Office: 325-247-3295 Emergency: 254-582-2622

East Texas Division  
 14295 S.H. 155 North Winona, Texas 75792  
 Office: 903-877-9222 Emergency: 817-357-6535

Coastal Division  
 34 East Ave., Schulenburg, Texas 78956  
 Office: 979-743-7010 Emergency: 254-221-3201



Report To: <i>Roy Harden</i>		Report To: (Buyer)		ANALYSES REQUESTED										NOTES:	
Company: <i>Parkhill</i>		Purchase Order #:													
		Address:													
Email: <i>rharden@parkhill.com</i>		Email: <i>Kilgore.projectmanagement@epclabs.com</i>													
Phone: <i>806-683-1069</i>		Phone:													
Project Name:		Quote #:													
Project Location: <i>Dimmitt WTP</i>		City, State: <i>Dimmitt, Texas</i>													
Hand Deliver: <input type="checkbox"/> Pick-up: <input type="checkbox"/>		Sampler: (Please Print) <i>Roy Harden</i>													
Lab#	Client Sample ID	Matrix	Date	Time	*Pres. Code	1 Bottle Code	CBOD / BOD	TSS	pH	DO	NH3N (pH<2.0, H2SO4) SMA4500-NH3 D or G unless specified	FECAL COLIFORM (E. COLI (Sterile))	MLSS	ALKALINITY	Sample Remarks
1.	<i>Dimmitt 103</i>	<i>WW</i>	<i>4/22/25</i>	<i>9:46</i>	<i>6</i>	<i>1</i>						<i>X</i>			
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															
Relinquished By:		Date	Time	Received By:		Date	Time	IR GUN ID: _____							
1. <i>Roy Harden</i>		<i>4/22/25</i>	<i>11:23</i>	1. <i>RTH</i>		<i>4-22-25</i>	<i>11:23</i>	Ice: YES NO							
2. <i>RTH</i>		<i>4-22-25</i>	<i>12:23</i>	2. <i>Audrey Wang</i>		<i>04/22/25</i>	<i>12:23</i>	Temperature: _____							
3.				3.				* Preservation Codes: 1. None 1. Plastic							
4.				4.				2. Sulfate 2. Glass + Tet							
								3. Nitric 3. 40 ml VOA							
								4. NaOH + ZnAc							
								5. NaOH							
								6. Sterile + Thiosulfate							

Complete sample information is vital for proper login and reporting. EML may need to subcontract some analyses due to equipment or procedural limitations.

Check us out on the web: <http://www.yourwaterlab.com>Email us at: [homeoffice@yourwaterlab.com](mailto:homeoffice@yourwaterlab.com)

Revised 06/2024



# ENVIRONMENTAL MONITORING LABORATORY, L.L.C

Panhandle Division  
13260 South Highway 287  
Amarillo, TX 79118-7005  
Phone: 254-582-2622

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

## ANALYTICAL REPORT 25042413

For:

SPL-Inc.

PO BOX 9000  
Kilgore, Texas 75663

**Sample Site:** Dimmitt 103

**Collected Date:** 04/22/25



**Lab Number:** TX01547

Authorized for release by:  
28-APR-25

Lisa Soward, Data Manager

[homeoffice@yourwaterlab.com](mailto:homeoffice@yourwaterlab.com)

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

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

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





# ENVIRONMENTAL MONITORING LABORATORY, L.L.C

Panhandle Division  
13260 South Highway 287  
Amarillo, TX 79118-7005  
Phone: 254-582-2622

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

## ANALYTICAL RESULTS

Analytical Report: 25042413

Lab ID: 25042413-001      Collected Date: 04/22/25 09:46      Matrix: Waste Water  
Client: SPL-Inc.      Received Date: 04/22/25 12:23      Temp at Receipt: 6.3 °C  
Sample Site: Dimmitt 103      Report Date: 04/28/25      Sample Collector: RH

Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
<i>E. coli</i>	<i>E. coli</i>	IDEXX Colilert	NP	04/22/25 12:25	>2420	MPN/100 mL

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

# QUALITY ASSURANCE & QUALITY CONTROL

Control #: 25042413

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

Biochemical Oxygen Demand(BOD) Carbonaceous Biochemical Oxygen Demand(CBOD) Method: SM 5210/B			Dissolved Oxygen Method: SM 4500-O*/G			Total Suspended Solids (TSS, MLSS) Method: 2540/D		
<b>Results</b>	<b>Units</b>	<b>Description</b>	<b>Results</b>	<b>Units</b>	<b>Description</b>	<b>Results</b>	<b>Units</b>	<b>Description</b>
				mg/L	Set Up Calibration			
				mg/L	Read Off Calibration			
				°C	Set Up Temperature			
				°C	Read Off Temperature			
				mm Hg	Set Up Barometer			
				mm Hg	Read Off Barometer			
			Fecal Coliform Method: SM9222 /D MF			Conductivity @ 25° C Method: SM2510/B Standards ran for each analytical batch.		
<b>Results</b>	<b>Units</b>	<b>Description</b>	<b>Results</b>	<b>Units</b>	<b>Description</b>	<b>Results</b>	<b>Units</b>	<b>Description</b>
				CFU/100ml	Pre Blank		umhos/cm	Conductivity Standard
				CFU/100ml	Post Blank		umhos/cm	Conductivity Standard
			TDS by SM2540/C				umhos/cm	Conductivity Standard
<b>Results</b>	<b>Units</b>	<b>Description</b>		mg/L	Blank			
			E. coli By IDEXX Colilert (enumeration)					
				MPN/100 mL				

*Lisa Soward*

Lisa Soward  
Data Manager

Report Out Date: 04/28/2025



**Appendix G**  
**Annual Cropping Plan**

**Appendix G**  
**Annual Cropping Plan – Cotton and Wheat**

- A. See Attached Soil Map
- B. Cotton is the warm season plant species and wheat is the cool season plant species.
- C. Typical Annual Growing Season is as follows:

Typical Annual Growing Season

January	X
February	X
March	X
April	X
May	X
June	X
July	X
August	X
September	X
October	X
November	X
December	X

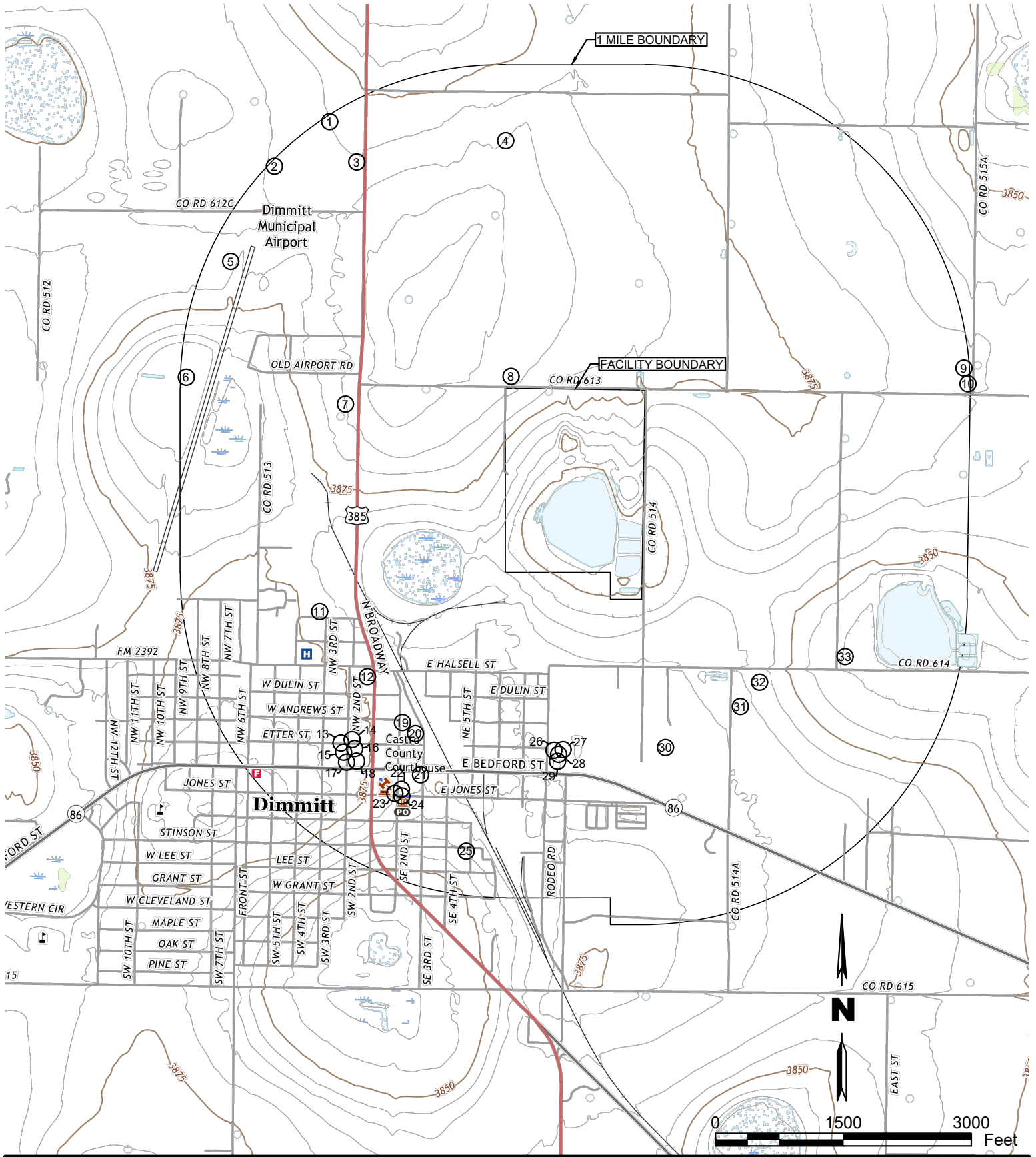
- D. Crop nutrient requirements:

Nutrient Uptake Rates for Selected Crops

Crop	Nitrogen (lb/ac-yr)	Phosphorus (lb/ac-yr)	Potassium (lb/ac-yr)
Cotton	95	13	36
Wheat	143	13	40

- E. There is no minimum or maximum harvest height. The crop will be harvested as-needed.
- F. No supplemental watering will be required.
- G. According to Table 3 of TAC §§ 309.20, both cotton and wheat are relatively salt tolerant with an electrical conductivity of 6.0 – 8.0 millimhos/cm @ 25° Celsius.
- H. The harvesting method will consist of baling, approximately 2-3 times per year.
- I. No additional fertilization will be necessary.
- J. N/A

**Appendix H**  
**Well Map and Information**



# City of Dimmitt Wastewater Treatment Plant Renewal

City of Dimmitt  
P.O. Box 146  
Dimmitt, TX 79027

## Parkhill

Parkhill.com

## Well Map

Issue:	Renewal
Date:	06/24/2025
Project No:	45427.25
Sheet:	1 OF 1

## STATE OF TEXAS WELL REPORT for Tracking #600306

Owner:	<b>Jake Myatt</b>	Owner Well #:	<b>20</b>
Address:	<b>9009 County Road 6850 Lubbock, TX 79407</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>.5 miles north of Dimmitt Dimmitt, TX 79027</b>	Latitude:	<b>34° 34' 46.4" N</b>
Well County:	<b>Castro</b>	Longitude:	<b>102° 18' 57.5" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **3/1/2022**

Drilling End Date: **3/1/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>16</b>	<b>0</b>	<b>383</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>13</b>	<b>Cement 2 Yards</b>

Seal Method: **Poured**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**



Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **No**

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

**The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.**

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: **DRILL PRO WATER WELL DRILLING**

**PO BOX 1281  
SEMINOLE, TX 79360**

Driller Name: **Johny Loewen**

License Number: **59027**

Apprentice Name: **Diedrich Dyck Neufeld**

Apprentice Number: **59866**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>Topsoil</b>
<b>2</b>	<b>10</b>	<b>Sandy Clay</b>
<b>10</b>	<b>98</b>	<b>Sand</b>
<b>98</b>	<b>331</b>	<b>Sand - Sandstone</b>
<b>331</b>	<b>365</b>	<b>Coarse Sand</b>
<b>365</b>	<b>373</b>	<b>Coarse Sand - Gravel</b>
<b>373</b>	<b>383</b>	<b>Red Bed</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>10</b>	<b>Blank</b>	<b>New Steel</b>	<b>250</b>	<b>0</b>	<b>343</b>
<b>10</b>	<b>Perforated or Slotted</b>	<b>New Steel</b>	<b>250</b>	<b>343</b>	<b>383</b>

---

**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 #600109

Owner:	<b>Jake Myatt</b>	Owner Well #:	<b>21</b>
Address:	<b>9009 County Road 6850 Lubbock, TX 79423</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>.5 miles north of Dimmitt. Dimmitt, TX 79027</b>	Latitude:	<b>34° 34' 41.03" N</b>
Well County:	<b>Castro</b>	Longitude:	<b>102° 19' 06.86" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **3/2/2022**

Drilling End Date: **3/3/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>16</b>	<b>0</b>	<b>394</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>12</b>	<b>Cement 2 Yards</b>

Seal Method: **Poured**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **No**

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

**The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.**

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: **DRILL PRO WATER WELL DRILLING**

**PO BOX 1281  
SEMINOLE, TX 79360**

Driller Name: **Johny Loewen**

License Number: **59027**

Apprentice Name: **Diedrich Dyck Neufeld**

Apprentice Number: **59866**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>4</b>	<b>Topsoil</b>
<b>4</b>	<b>14</b>	<b>Sandy Clay</b>
<b>14</b>	<b>99</b>	<b>Sand</b>
<b>99</b>	<b>335</b>	<b>Sand - Sandstone</b>
<b>335</b>	<b>373</b>	<b>Coarse Sand</b>
<b>373</b>	<b>382</b>	<b>Coarse Sand - Gravel</b>
<b>382</b>	<b>394</b>	<b>Red Bed</b>

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>10</b>	<b>Blank</b>	<b>New Steel</b>	<b>250</b>	<b>0</b>	<b>354</b>
<b>10</b>	<b>Perforated or Slotted</b>	<b>New Steel</b>	<b>250</b>	<b>354</b>	<b>394</b>

---

**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 #507519

Owner:	<b>Jake Myatt</b>	Owner Well #:	<b>94368</b>
Address:	<b>113 Gary Levelland, TX 79336</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>Labor: 4 League: 3 JE Tucker Sub 1 Mile N of Dimmit Dimmitt, TX</b>	Latitude:	<b>34° 34' 40.92" N</b>
		Longitude:	<b>102° 18' 48.84" W</b>
		Elevation:	<b>No Data</b>
Well County:	<b>Castro</b>		
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **2/23/2019**      Drilling End Date: **2/25/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>16</b>	<b>0</b>	<b>385</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 10 Bags/Sacks</b>

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **825N, 246W**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

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: **Peter B Loewen**  
**704 CR 421**  
**Seminole, TX 79360**

Driller Name: **Peter B Loewen**

License Number: **59470**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>4</b>	<b>Top Soil</b>
<b>4</b>	<b>10</b>	<b>Caliche</b>
<b>10</b>	<b>35</b>	<b>Red Sand</b>
<b>35</b>	<b>180</b>	<b>Sandy Clay</b>
<b>180</b>	<b>195</b>	<b>Sandstone</b>
<b>195</b>	<b>255</b>	<b>Sand</b>
<b>255</b>	<b>280</b>	<b>Sandstone</b>
<b>280</b>	<b>360</b>	<b>Sand</b>
<b>360</b>	<b>380</b>	<b>Sandstone</b>
<b>380</b>	<b>385</b>	<b>Red Clay</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>10.75</b>		<b>New Steel</b>		<b>0</b>	<b>265</b>
<b>10.75</b>	<b>Perforated or Slotted</b>	<b>New Steel</b>	<b>0.25</b>	<b>265</b>	<b>385</b>

---

**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 #363325

Owner: **Miguel Carrillo**  
Address: **426 Star  
Hereford, TX 79045**  
Well Location: **Dimmitt, TX 79027**  
Well County: **Castro**

Owner Well #: **#1A**  
Grid #: **10-30-5**  
Latitude: **34° 34' 40" N**  
Longitude: **102° 18' 07" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **5/14/2014**

Drilling End Date: **5/14/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>15</b>	<b>0</b>	<b>385</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>10</b>

Seal Method: **Pumped**

Distance to Property Line (ft.): **1.227**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **270 ft. below land surface on 2014-05-15** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>270</b>	<b>Normal</b>

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: **Drill Pro Waterwell Drilling**  
**P.O. Box 566**  
**Dimmitt, TX 79027**

Driller Name: **Jacobo Friesen**

License Number: **59415**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>3</b>	<b>Topsoil</b>
<b>3</b>	<b>20</b>	<b>Sand-Clay</b>
<b>20</b>	<b>75</b>	<b>Sandstone</b>
<b>75</b>	<b>85</b>	<b>Clay</b>
<b>85</b>	<b>250</b>	<b>Sand-Sandstone</b>
<b>250</b>	<b>280</b>	<b>Sand-Clay</b>
<b>280</b>	<b>378</b>	<b>Sand-Small Gravel</b>
<b>378</b>	<b>385</b>	<b>Red Bed</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>10 3/4</b>	<b>New</b>	<b>Steel Perf.</b>	<b>+1-385 .219</b>

#### 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 #665034

Owner:	<b>Jake Myatt</b>	Owner Well #:	<b>100612</b>
Address:	<b>9009 CR 6850 Lubbock, TX 79407</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>Survey: Delta CSL League: 3 Labor : 4 Subdiv: Tucker, JE NE4 1.7 Miles N and .4 Miles W of Dimmitt Dimmitt, TX</b>	Latitude:	<b>34° 34' 23.06" N</b>
		Longitude:	<b>102° 19' 15.16" W</b>
		Elevation:	<b>No Data</b>
Well County:	<b>Castro</b>		

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>
---------------	-----------------	---------------	-------------------

Drilling Start Date: **3/11/2024**      Drilling End Date: **3/12/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12</b>	<b>0</b>	<b>410</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 10 Bags/Sacks</b>

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **332N, 60E**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Wheel**

Surface Completion:	<b>Steel Cased</b>	<b>Surface Completion by Driller</b>
---------------------	--------------------	--------------------------------------

Water Level:	<b>350 ft. below land surface on 2024-03-11</b>	Measurement Method:	<b>Weighted Line</b>
--------------	---	---------------------	----------------------

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

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: **Peter B Loewen**  
**PO BOX 796**  
**SEMINOLE, TX 79360**

Driller Name: **Peter B Loewen** License Number: **59470**

Apprentice Name: **Cornelio Loewen** Apprentice Number: **61124**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>4</b>	<b>Top Soil</b>
<b>4</b>	<b>29</b>	<b>Clay</b>
<b>29</b>	<b>68</b>	<b>Sand and Sandstone</b>
<b>68</b>	<b>210</b>	<b>Sand</b>
<b>210</b>	<b>300</b>	<b>Sandy Clay and Sandstone</b>
<b>300</b>	<b>389</b>	<b>Clay</b>
<b>389</b>	<b>400</b>	<b>Sand and Gravel</b>
<b>400</b>	<b>410</b>	<b>Redbed</b>

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>8.625</b>	<b>Blank</b>	<b>New Steel</b>		<b>0</b>	<b>326</b>
<b>8.625</b>	<b>Perforated or Slotted</b>	<b>New Steel</b>		<b>326</b>	<b>410</b>

**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 #665046

Owner:	<b>Jake Myatt</b>	Owner Well #:	<b>100611</b>
Address:	<b>9009 CR 6850 Lubbock, TX 79407</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>Survey: Baird, DC 1.4 Miles N of Dimmitt and .4 Miles W of Dimmitt Dimmitt, TX</b>	Latitude:	<b>34° 34' 07.28" N</b>
		Longitude:	<b>102° 19' 21.37" W</b>
		Elevation:	<b>No Data</b>
Well County:	<b>Castro</b>		

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>
---------------	-----------------	---------------	-------------------

Drilling Start Date: **3/14/2024**      Drilling End Date: **3/15/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12</b>	<b>0</b>	<b>390</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 10 Bags/Sacks</b>

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **66S and 73E**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Wheel**

Surface Completion:	<b>Steel Cased</b>	<b>Surface Completion by Driller</b>
---------------------	--------------------	--------------------------------------

Water Level:	<b>349 ft. below land surface on 2024-03-14</b>	Measurement Method:	<b>Weighted Line</b>
--------------	---	---------------------	----------------------

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

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: **Peter B Loewen**  
**PO BOX 796**  
**SEMINOLE, TX 79360**

Driller Name: **Peter B Loewen** License Number: **59470**

Apprentice Name: **Cornelio Loewen** Apprentice Number: **61124**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>5</b>	<b>Top Soil</b>
<b>5</b>	<b>43</b>	<b>Clay</b>
<b>43</b>	<b>90</b>	<b>Sand and Sandstone</b>
<b>90</b>	<b>210</b>	<b>Sand</b>
<b>210</b>	<b>288</b>	<b>Sand and Sandstone</b>
<b>288</b>	<b>373</b>	<b>Clay</b>
<b>373</b>	<b>383</b>	<b>Coarse Sand and Gravel</b>
<b>383</b>	<b>390</b>	<b>Redbed</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>8.625</b>	<b>Blank</b>	<b>New Steel</b>		<b>0</b>	<b>306</b>
<b>8.625</b>	<b>Perforated or Slotted</b>	<b>New Steel</b>		<b>306</b>	<b>390</b>

**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**

**High Plains Underground Water Conservation District No. 1**  
**2930 Avenue Q Lubbock, TX 79405**  
**(806) 762-0181**  
**Observation Well Schedule**

State Well No. 10 - 30 - 505 Permit-Assigned No. 1452 County Castro 069  
River Basin Brazos 12 Zone 1 Region     Lat. 34 - 33 - 40 Long. 102 - 18 - 51 Source of Coord. 0  
Owners Well No.     Location     1/4 of, N 1/4, Sec. 22 Lbr. 34 34 31 Blk. M Lge.     Survey    

Owner De Bruce Grain Address PO Box 758, Dimmitt, Texas 79027  
Operator     Address      
Driller Don Wade Address    

Date Drilled 07-28-1959 Depth 405 ft. Depth Datum D Altitude 3882 ft. Source of Altitude Datum M

Aquifer Ogallala 121OGLL Well Type W User    

Well Const. Method Rotary Casing Material Steel S

Completion Perforated P Screen Material Steel S

Pump Mfr. FairBanks Morse Type Turbine T G.H. Amarillo

Bowls Diam.     in. Setting     ft. Column Diam.     in.

Motor Mfr. none Fuel     H.p.    

**Water Use**

Primary Unused U Secondary     Tertiary    

Other Data Available: Water Level C Water Quality     Logs    

Pump Yield     GPM Measured ☐ Reported ☐ Estimated ☐

Other Data    

Casing or Blank Pipe (C)					
Well Screen or Slotted Zone (S)					
Open Hole (O)					
Cemented From <u>   </u> to <u>   </u> ft.					
Diameter Setting (feet)					
(in.) From To					
C	1	6	0	3	0 5
S	1	6	3	0 5	4 0 5

**Performance Test**

Date     Length of Test     hrs. Static Level     ft. Pumping Level     ft. Prod.     GPM

**Water Levels**

Date 01-08-2004 Measurement 259.29 Below LSD

Date     Measurement    

Date     Measurement    

Recorded By Dan Seale Date Record Collected or Updated 04-27-2004

Remarks: ID faceup on West saide of concrete base

This Well Replaces - -

M.P. - Airline hole West side of pump base = +1.20 ft

No. 10 - 30 - 505

State Well No. 1030505 Previous Well No.            County CASTRO 069  
River Basin BRAZOS 12 Zone 1 Region      Lat. 343401 Long. 1021849 Source of Coard. 1  
Owner's Well No.                      Location SE 1/4, NE 1/4, Section 22, Block M, Survey             
PERMIT # 1452

Address \_\_\_\_\_ Tenant/Oper. \_\_\_\_\_

Date Drilled  Depth  Source of  
Depth Datum  Altitude  Source of  
Alt. Datum

Aquifer OGALLALA  Well  
Type  User

Date     Meas.    •  \_\_\_\_\_

900052  
11/21/89



TEXAS DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

- Aquifer(s) Ogallala Project No. Permit State Well No. 10 - 30 - 505  
 Field No./Owner's Well No. 1452 County Castro
1. Location: 1/4, 1/4, Section 22, Block M, Survey, Lat. 34-34-01, Long. 102-18-53  
NE corner
2. Owner: Mrs. W. O. Lawrence (Estate) Address: Dimmitt, Texas  
 Tenant (other): B. McLean Address: c/o 1st State Bank, Dimmitt, Texas  
 Driller: Don Wade Address: Plainview, Texas
3. Land Surface Elevation: 3,882 ft. above msl determined by interpretation of contour lines
4. Drilled: July 28 19 59; Dug, Cable Tool, Rotary, Air, ---
5. Depth: Rept. 405 ft. Meas. --- ft.
6. Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed
7. Pump: Mfr. Fairbanks Morse Type turbine  
 No. Stages 7, Bowls Diam. 10 in., Setting 240 ft.  
 Column Diam. 5 in., Length Tailpipe --- ft.
8. Motor: Mfr. Slant 6 Fuel natural gas HP. ---
9. Yield: Flow --- gpm, Pump 200 gpm, Meas., Rept., Est. 7-28 Date 59
10. Performance Test: Date --- Length of Test --- Made by ---  
 Static Level --- ft. Pumping Level --- ft. Drawdown --- ft.  
 Production --- gpm Specific Capacity --- gpm/ft.
11. Quality: (Remarks on taste, odor, color, etc.) ---  
Analyses  
 Date --- Laboratory --- TDS --- Sp Cond ---  
 Date --- Laboratory --- TDS --- Sp Cond ---
12. Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log,  
 Formation Samples, Geophysical Log(s) --- (type)
13. Water Level(s): 217.80 ft. ~~max~~ meas. 1-10 19 69 above --- which is 1.20 ft. above ~~max~~ Land Surface  
--- ft. rept. meas. 19 above --- which is --- ft. above Land Surface
14. Use: Dom., Stock, Public Supply, Ind., Irr., Observation, Other (Test Hole, Oil Test, etc.) ---
15. Recorded by: Pennye Newberry Source of data: HPIWCD#1 files Date: 4-9-69  
7-24-79
16. Remarks: 4/9/69 (Note MP change from old schedule) old ID Plate gone new Plate face  
up on round concrete pump base S. side, face up. HFS.  
MP - Edge of 1/2 inch hole W. side of pump base inside pump port +1.20 ft.
17. Location or Sketch: ---

CASING, BLANK PIPE & WELL SCREEN			
Cemented From <u>---</u> ft. to <u>---</u> ft.			
Diam. (in.)	Type	Setting (feet)	
		from	to
<u>---</u>	<u>---</u>	<u>0</u>	<u>405</u>
PERFORATIONS OR SCREEN			
slots from <u>305</u> ft. to <u>405</u>			
ft. - Size <u>1/2</u> in.			

TEXAS WATER COMMISSION

## WELL SCHEDULE

W.D.

Aquifer Ogallala

Field No. 1452

State Well No. 10-30-505

Owner's Well No.

County Castro

1. Location: SE 1/4, NE 1/4 Sec. 22, Block M Survey

2. Owner: R. E. Holland Address: Dimmitt, Texas

Tenant:	Address:
---------	----------

Driller: Don Wade Address: Plainview, Texas

3. Elevation of \_\_\_\_\_ is \_\_\_\_\_ ft. above msl, determined by \_\_\_\_\_

4. Drilled: 7/28 1959 ; Dug, Cable Tool, Rotary.

5. Depth: Rept. 405 ft. Meas.          ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfr. Fairbanks Morris \_\_\_\_\_ Type \_\_\_\_\_ Turbine

No. Stages \_\_\_\_\_, Bowls Diam. 10 in., Setting \_\_\_\_\_ ft.

Column Diam. 5 in., Length Tailpipe 6 ft. Discharge

8. Motor: Fuel nat. Gas Make & Model International HP. 1

9. Yield: Flow \_\_\_\_\_ gpm, Pump 200 gpm, Meas., Rept., Est.

10. Performance Test: Date \_\_\_\_\_ Length of Test \_\_\_\_\_ Made by \_\_\_\_\_

Static Level	ft.	Pumping Level	ft.	Drawdown	ft.
--------------	-----	---------------	-----	----------	-----

Production	gpm	Specific Capacity	gpm/ft.
------------	-----	-------------------	---------

11. <u>Water Level:</u>	ft.	rept.	19	above	which is	ft.	above	surface.
	meas.			below			below	
<u>196.18</u>	ft.	rept.	Oct. 26 1962	above	1" hole in bottom of pump	which is	1.2	ft. above surface.
	meas.			below			below	
<u>204.08</u>	ft.	rept.	1-4 1963	above	Pumped concurrently East side	which is	1.2	ft. above surface.
	meas.			below			below	
	ft.	rept.	19	above	which is	ft.	above	surface.
	meas.			below			below	

12. Use: Dom., Stock, Public Supply, Ind., Waterflooding, Observation, Not Used, Irrigation

13. Quality: (Remarks on taste, odor, color, etc.)

Temp. °F. Date sampled for analysis Laboratory

Temp.	'F.	Date sampled for analysis	Laboratory
-------	-----	---------------------------	------------

Temp.	'F, Date sampled for analysis	Laboratory
-------	-------------------------------	------------

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,

Formation Samples, Pumping Test,

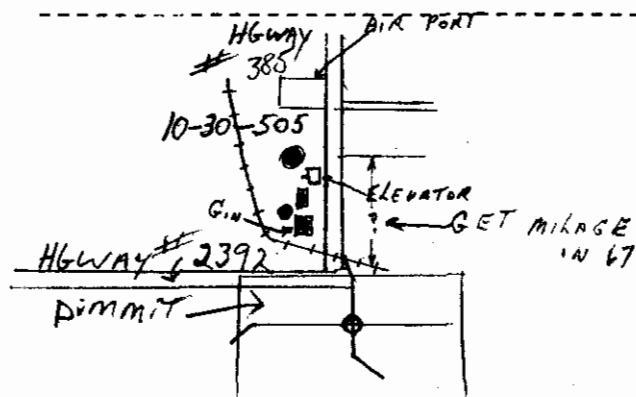
15. Record by: Wayne Wyatt Date Oct. 26 19 62

### Source of Data

16. Remarks: Number plate on east side of pump base.

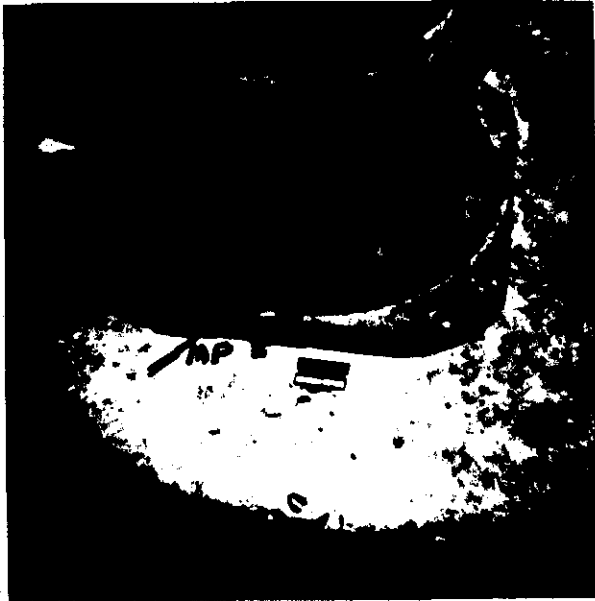
-- 211 yards from north line

---83 yards from east line

[illegible][illegible]

(Sketch)

10-30-505



mp-ID View Looking EAST

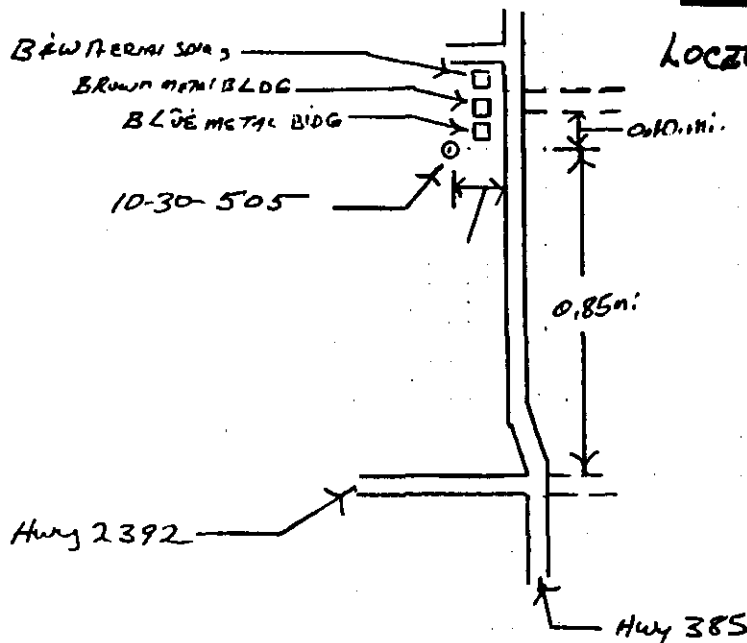
COUNTY CASTRO  
NO. 10-30-505

LOCATION SKETCH  
BY DAN SEALE  
DATE 4-28-92

PHOTOGRAPHS  
BY DAN SEALE  
DATE 4-15-92



LOCATION VIEW Looking NE.



↑ N  
NO. 10-30-505

## STATE OF TEXAS WELL REPORT for Tracking #646665

Owner:	<b>Estevan Porras</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1431 County Road 613 Dimmitt, TX 79027</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>1431 County Road 613 Dimmitt, TX 79027</b>	Latitude:	<b>34° 34' 07.4" N</b>
Well County:	<b>Castro</b>	Longitude:	<b>102° 18' 14.66" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/10/2023**      Drilling End Date: **8/11/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>405</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>22</b>	<b>405</b>	<b>Gravel</b>	<b>8/16</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>2</b>	<b>22</b>	<b>Cement 8 Bags/Sacks</b>

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **> 50**

Distance to Septic Field or other  
concentrated contamination (ft.): **> 100**

Distance to Septic Tank (ft.): **> 50**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**      **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

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: **Currie Drilling Co., Inc.**

**3001 N. 23rd St.  
Canyon, TX 79015**

Driller Name: **Shane Currie**

License Number: **54499**

Apprentice Name: **Isaac Deluna**

Apprentice Number: **61028**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>5</b>	<b>Topsoil</b>
<b>5</b>	<b>15</b>	<b>Caliche Clay</b>
<b>15</b>	<b>110</b>	<b>Sand and Sandstone</b>
<b>110</b>	<b>140</b>	<b>Sandy Clay - Tan</b>
<b>140</b>	<b>300</b>	<b>Sand and Sandstone</b>
<b>300</b>	<b>365</b>	<b>Fine Sand</b>
<b>365</b>	<b>385</b>	<b>Gravel and Sand</b>
<b>385</b>	<b>395</b>	<b>Sandy Clay with Minor Gravel</b>
<b>395</b>	<b>405</b>	<b>Red Clay</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>5</b>	<b>Blank</b>	<b>New Steel</b>		<b>-2</b>	<b>3</b>
<b>5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>		<b>3</b>	<b>355</b>
<b>5</b>	<b>Perforated or Slotted</b>	<b>New Plastic (PVC)</b>	<b>0.035</b>	<b>355</b>	<b>395</b>
<b>5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>		<b>395</b>	<b>405</b>

---

**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**

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	1030601
County	Castro
River Basin	Brazos
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	34.568889
Latitude (degrees minutes seconds)	34° 34' 08" N
Longitude (decimal degrees)	-102.28
Longitude (degrees minutes seconds)	102° 16' 48" W
Coordinate Source	+/- 1 Second
Aquifer Code	121OGLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3864
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	385
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	2/26/1953
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	W.H. & C. Fuller
Driller	H.C. & L. D. Green
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	
Last Update Date	

Remarks	
---------	--

Casing						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank				0	192
16	Screen				192	385

**Well Tests - No Data**

**Lithology - No Data**

**Annular Seal Range - No Data**

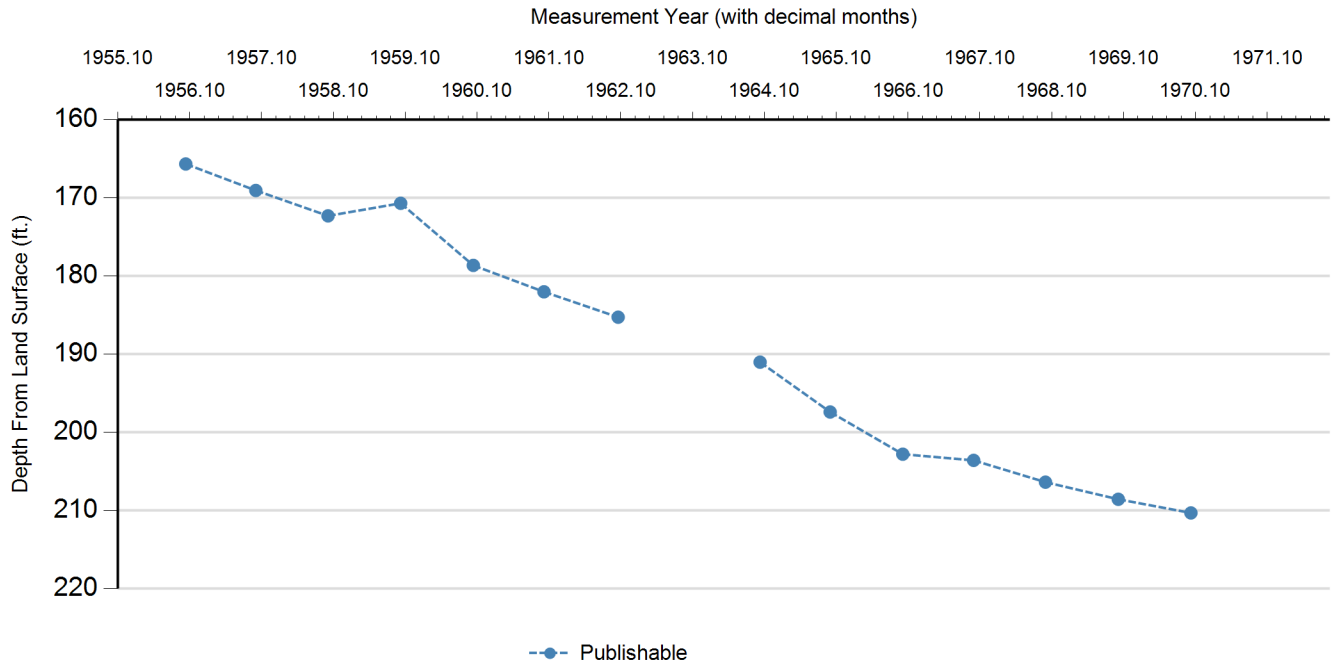
**Borehole - No Data**

**Plugged Back - No Data**

**Filter Pack - No Data**

**Packers - No Data**

### Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/17/1956		165.64		3698.36	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/8/1957		169.03	3.39	3694.97	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/10/1958		172.28	3.25	3691.72	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/14/1959		170.67	(1.61)	3693.33	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/18/1960		178.62	7.95	3685.38	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/12/1961		182	3.38	3682	1	Groundwater Conservation District	Steel Tape		
P	1/24/1962		185.25	3.25	3678.75	1	Groundwater Conservation District	Steel Tape		
X	1/4/1963					1	Groundwater Conservation District		19	
P	1/15/1964		191		3673	1	Groundwater Conservation District	Steel Tape		
P	1/6/1965		197.38	6.38	3666.62	1	Groundwater Conservation District	Steel Tape		
P	1/10/1966		202.78	5.40	3661.22	1	Groundwater Conservation District	Steel Tape		
P	1/5/1967		203.57	0.79	3660.43	1	Groundwater Conservation District	Steel Tape		
P	1/5/1968		206.36	2.79	3657.64	1	Groundwater Conservation District	Steel Tape		
P	1/10/1969		208.55	2.19	3655.45	1	Groundwater Conservation District	Steel Tape		



**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
10-30-601**

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/14/1970		210.3	1.75	3653.7	1	Texas Water Development Board	Steel Tape		
X	1/10/1971					1	Texas Water Development Board		18	

### Code Descriptions

Status Code	Status Description
P	Publishable
X	No Measurement

Remark ID	Remark Description
1	Accurately reflects water level conditions
18	Well destroyed
19	Well pumping

---

**Water Quality Analysis - No Data Available**

---

*GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<https://www.twdb.texas.gov/groundwater/data/gwdb rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).*

**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
10-30-602**

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	1030602
County	Castro
River Basin	Brazos
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	34.567778
Latitude (degrees minutes seconds)	34° 34' 04" N
Longitude (decimal degrees)	-102.279722
Longitude (degrees minutes seconds)	102° 16' 47" W
Coordinate Source	+/- 1 Second
Aquifer Code	121OGLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3863
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	173
Well Depth Source	Measured
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Clara Fuller
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	
Last Update Date	

Remarks Well 58 in M-034.

### Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
4	Blank	Steel			0	

**Well Tests - No Data**

**Lithology - No Data**

**Annular Seal Range - No Data**

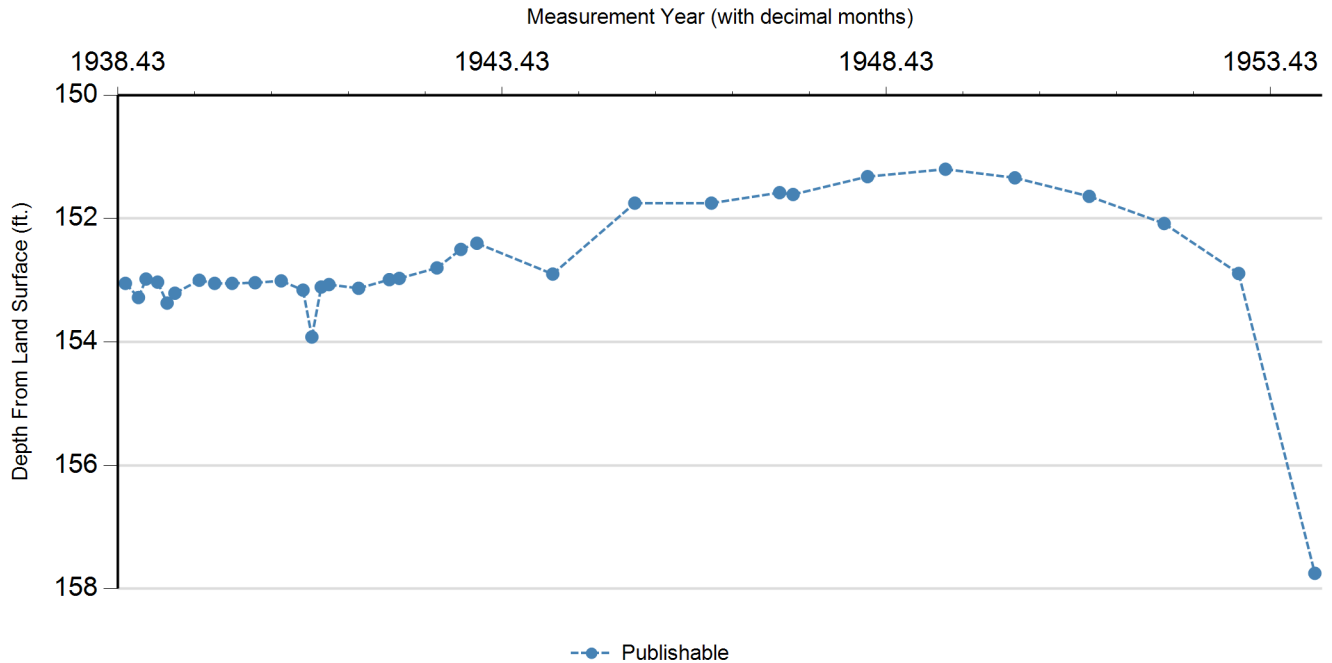
**Borehole - No Data**

**Plugged Back - No Data**

**Filter Pack - No Data**

**Packers - No Data**

### Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	7/13/1938		153.05		3709.95	1	Other or Source of Measurement Unknown	Unknown	1	
P	9/15/1938		153.28	0.23	3709.72	1	Other or Source of Measurement Unknown	Unknown	1	
P	10/21/1938		152.98	(0.30)	3710.02	1	Other or Source of Measurement Unknown	Unknown	1	
P	12/16/1938		153.03	0.05	3709.97	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/26/1939		153.37	0.34	3709.63	1	Other or Source of Measurement Unknown	Unknown	1	
P	3/3/1939		153.21	(0.16)	3709.79	1	Other or Source of Measurement Unknown	Unknown	1	
P	6/29/1939		153	(0.21)	3710	1	Other or Source of Measurement Unknown	Unknown	1	
P	9/12/1939		153.05	0.05	3709.95	1	Other or Source of Measurement Unknown	Unknown	1	
P	12/5/1939		153.05	0.00	3709.95	1	Other or Source of Measurement Unknown	Unknown	1	
P	3/19/1940		153.04	(0.01)	3709.96	1	Other or Source of Measurement Unknown	Unknown	1	
P	7/23/1940		153.01	(0.03)	3709.99	1	Other or Source of Measurement Unknown	Unknown	1	
P	11/7/1940		153.16	0.15	3709.84	1	Other or Source of Measurement Unknown	Unknown	1	
P	12/19/1940		153.92	0.76	3709.08	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/28/1941		153.11	(0.81)	3709.89	1	Other or Source of Measurement Unknown	Unknown	1	

**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
10-30-602**

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/5/1941		153.07	(0.04)	3709.93	1	Other or Source of Measurement Unknown	Unknown	1	
P	7/26/1941		153.13	0.06	3709.87	1	Other or Source of Measurement Unknown	Unknown	1	
P	12/22/1941		152.99	(0.14)	3710.01	1	Other or Source of Measurement Unknown	Unknown	1	
P	2/4/1942		152.97	(0.02)	3710.03	1	Other or Source of Measurement Unknown	Unknown	1	
P	8/3/1942		152.8	(0.17)	3710.2	1	Other or Source of Measurement Unknown	Unknown	1	
P	11/27/1942		152.5	(0.30)	3710.5	1	Other or Source of Measurement Unknown	Unknown	1	
P	2/8/1943		152.4	(0.10)	3710.6	1	Other or Source of Measurement Unknown	Unknown	1	
P	2/3/1944		152.9	0.50	3710.1	1	Other or Source of Measurement Unknown	Unknown	1	
P	2/28/1945		151.75	(1.15)	3711.25	1	Other or Source of Measurement Unknown	Unknown	1	
P	2/27/1946		151.75	0.00	3711.25	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/16/1947		151.58	(0.17)	3711.42	1	Other or Source of Measurement Unknown	Unknown	1	
P	3/20/1947		151.61	0.03	3711.39	1	Other or Source of Measurement Unknown	Unknown	1	
P	3/9/1948		151.32	(0.29)	3711.68	1	Other or Source of Measurement Unknown	Unknown	1	
P	3/14/1949		151.2	(0.12)	3711.8	1	Other or Source of Measurement Unknown	Unknown	1	
P	2/9/1950		151.34	0.14	3711.66	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/27/1951		151.64	0.30	3711.36	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/18/1952		152.08	0.44	3710.92	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/7/1953		152.89	0.81	3710.11	1	Other or Source of Measurement Unknown	Unknown	1	
P	1/4/1954		157.75	4.86	3705.25	1	Other or Source of Measurement Unknown	Unknown	1	

### Code Descriptions

Status Code	Status Description
P	Publishable

Remark ID	Remark Description
1	Accurately reflects water level conditions

---

**Water Quality Analysis - No Data Available**

---

*GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<https://www.twdb.texas.gov/groundwater/data/gwdb.rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).*

## STATE OF TEXAS WELL REPORT for Tracking #267634

Owner: **Lily Nickolson**  
Address: **304 Wheat Street  
Dimmitt, TX 79027**  
Well Location: **304 Wheat Street  
Dimmitt, TX 79027**  
Well County: **Castro**

Owner Well #: **1**  
Grid #: **10-30-5**  
Latitude: **34° 33' 30" N**  
Longitude: **102° 18' 56" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **8/12/2011**

Drilling End Date: **8/15/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9.875</b>	<b>0</b>	<b>405</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>20</b>	<b>405</b>	<b>Gravel</b>	<b>3/16</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>2</b>	<b>20</b>	<b>16</b>

Seal Method: **cement**

Distance to Property Line (ft.): **250**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
315-398	good

Chemical Analysis Made: **No**

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

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

Company Information: **Rodgers Well Service**  
**3012 Dimmitt RD**  
**Plainview, TX 79072**

Driller Name: **Chad Brunson**

License Number: **58174**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	20	top soil caliche
20	58	sandy clay
58	180	sand,sand rock streaks
180	215	sand,sandy clay streaks,sand rock streaks
215	230	fine gravel streaks,sand rock
230	270	sandy clay
270	295	sand,sandy clay,fine gravel streaks
295	315	hard cemented,sand rock
315	345	sand,sand rock
345	398	coarse river sand,sand rock
398	405	red bed

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
+2-3	5	inch steel	
3-385	5	inch pvc 200 psi	
385-405	5	inch .035 pvc perf	



---

**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 #511876

Owner:	<b>Bill Myatt</b>	Owner Well #:	<b>94585</b>
Address:	<b>#7 Paxton Place Levelland, TX 79336</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>Block: T Survey: Thompson, RM SW 1/4 Section:65 1 Mile South and 9 Miles West of Dimmit Dimmitt, TX</b>	Latitude:	<b>34° 33' 17.94" N</b>
		Longitude:	<b>102° 18' 45.6" W</b>
		Elevation:	<b>No Data</b>
Well County:	<b>Castro</b>		
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **4/12/2019**      Drilling End Date: **4/12/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>16</b>	<b>0</b>	<b>448</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 10 Bags/Sacks</b>

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **2919S, 1149W**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

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: **Peter B Loewen**  
**704 CR 421**  
**Seminole, TX 79360**

Driller Name: **Peter B Loewen**

License Number: **59470**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>3</b>	<b>Top Soil</b>
<b>3</b>	<b>16</b>	<b>Caliche</b>
<b>16</b>	<b>112</b>	<b>Sandy Clay</b>
<b>112</b>	<b>183</b>	<b>White Sand</b>
<b>183</b>	<b>246</b>	<b>Brown Sand</b>
<b>246</b>	<b>265</b>	<b>Sandstone</b>
<b>265</b>	<b>316</b>	<b>Sandy Clay</b>
<b>316</b>	<b>342</b>	<b>Sandstone</b>
<b>342</b>	<b>387</b>	<b>Sand</b>
<b>387</b>	<b>403</b>	<b>Clay</b>
<b>403</b>	<b>415</b>	<b>Sand/Gravel</b>
<b>415</b>	<b>441</b>	<b>Coarse Sand</b>
<b>441</b>	<b>448</b>	<b>Red Clay</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>10</b>		<b>New Steel</b>		<b>0</b>	<b>328</b>
<b>10</b>	<b>Perforated or Slotted</b>	<b>New Steel</b>	<b>0.375</b>	<b>328</b>	<b>448</b>

---

**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 #211542

Owner:	<b>ENPROTEC- TCEQ contract 582879649</b>	Owner Well #:	<b>IW1 LPST099894</b>
Address:	<b>6310 Genoa Ave Suite E Lubbock, TX 79424</b>	Grid #:	<b>10-30-5</b>
Well Location:	<b>NW 2nd &amp; W. Etter St Dimmitt, TX 79027</b>	Latitude:	<b>34° 33' 07" N</b>
Well County:	<b>Castro</b>	Longitude:	<b>102° 18' 51" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Injection</b>

Drilling Start Date: **3/2/2010**

Drilling End Date: **3/6/2010**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12.25</b>	<b>0</b>	<b>408</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>85</b>	<b>398</b>	<b>Gravel</b>	<b>3/8" PEA</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>2</b>	<b>83</b>	<b>21 SACKS CEMENT</b>
	<b>83</b>	<b>85</b>	<b>7 SACKS</b>

Seal Method: **CEMENT & BENTONITE  
CHIPS**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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

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: **Presage Environmental / B & B Construction**  
**PO Box 288**  
**Brownfield, TX 79316**

Driller Name: **Dwane Ward** License Number: **54415**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>3</b>	<b>TOP SOIL</b>
<b>3</b>	<b>30</b>	<b>CLAY</b>
<b>30</b>	<b>48</b>	<b>SANDY CLAY MIX</b>
<b>48</b>	<b>110</b>	<b>SAND</b>
<b>110</b>	<b>130</b>	<b>SAND &amp; LITTLE GRAVEL</b>
<b>130</b>	<b>270</b>	<b>SAND</b>
<b>270</b>	<b>310</b>	<b>SAND &amp; SANDSTONE</b>
<b>310</b>	<b>408</b>	<b>SAND</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>6 N</b>	<b>PVC</b>	<b>BLANK</b>	<b>0 - 98</b>
<b>6 N</b>	<b>PVC</b>	<b>SCREEN</b>	<b>98 - 398 .035</b>

**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 #39039

Owner: **Castro Oil & Gas Inc.**

Owner Well #: **MW-8**

Address: **P.O. Box 739  
Dimmitt, TX 79027**

Grid #: **10-30-5**

Well Location: **118 W. Bedford  
Dimmitt, TX 79027**

Latitude: **34° 33' 07" N**

Longitude: **102° 18' 50" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **6/7/2004**

Drilling End Date: **6/7/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>340</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>275</b>	<b>340</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>260</b>	<b>Cement</b>
	<b>260</b>	<b>275</b>	<b>Bentonite</b>

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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: **T&T Drilling**  
**P.O. Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder** License Number: **1862**

Comments: **Amended 7-23-04 Ref#128**

**Report Amended on by Request #128**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>Brown Top Soil</b>
<b>2</b>	<b>98</b>	<b>Brown Sandy Clay</b>
<b>98</b>	<b>265</b>	<b>Brown Sand</b>
<b>265</b>	<b>325</b>	<b>Brown Sandstone</b>
<b>325</b>	<b>333</b>	<b>Brown Sand</b>
<b>333</b>	<b>340</b>	<b>Brown Sandstone</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>4</b>	<b>New</b>	<b>PVC Solid</b>	<b>0/300</b>
<b>4</b>	<b>New</b>	<b>PVC Slotted</b>	<b>300/340 .020</b>

#### 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 #78039

Owner: **Castro Oil & Gas, Inc**

Owner Well #: **SB-3**

Address: **P.O Box 739  
Dimmitt, TX 79027**

Grid #: **10-30-5**

Well Location: **118 W. Bedford  
Dimmitt, TX 79027**

Latitude: **34° 33' 05" N**

Longitude: **102° 18' 50" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **2/21/2006**

Drilling End Date: **2/21/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>19</b>

Drilling Method: **Solid Auger**

Borehole Completion: **Unknown**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>3</b>	<b>Cement</b>
	<b>3</b>	<b>19</b>	<b>Bentonite</b>

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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: **T & T Drilling**  
**P.O Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder**

License Number: **1862**

Apprentice Name: **Geoffry Spencer**

Apprentice Number: **3041**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>From (ft)</i>	<i>To (ft)</i>	<i>Description</i>
<b>0-12</b>	<b>Fill</b>	
<b>12-14</b>	<b>Sandy Clay</b>	
<b>19</b>	<b>Rock</b>	

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>Not Completed</b>			

---

#### 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 #9101

Owner: **Castro Oil & Gas, Inc.**

Owner Well #: **MW-2**

Address: **P. O. Box 739  
Dimmitt, TX 79027**

Grid #: **10-30-5**

Well Location: **118 W. Bedford  
Dimmitt, TX 79027**

Latitude: **34° 33' 05" N**

Longitude: **102° 18' 49" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **7/2/2002**

Drilling End Date: **7/2/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12</b>	<b>0</b>	<b>12</b>
	<b>7.875</b>	<b>0</b>	<b>338</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>285</b>	<b>338</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	
	<b>10</b>	<b>275</b>	

Seal Method: **275 - 285 Chips (slurry)**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **310 ft. below land surface on 2002-07-03** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>Hydrocarbon</b>

Chemical Analysis Made: **Unknown**

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

<i>Natural Injurious Constituents</i>	<i>Unnatural Injurious Constituents</i>
	<b>Hydrocarbon Contamination (gasoline, diesel, etc.)</b>

**The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.**

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: **T & T Drilling**  
**P. O. Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder** License Number: **1862**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>10</b>	<b>Brown Backfill</b>
<b>10</b>	<b>21</b>	<b>White Caliche</b>
<b>21</b>	<b>63</b>	<b>Brown Clay</b>
<b>63</b>	<b>338</b>	<b>Brown Sand &amp; Sandstone</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>4 N</b>	<b>PVC Solid</b>	<b>0 295</b>	
<b>4 N</b>	<b>PVC Slotted</b>	<b>295 335 .020</b>	
<b>8 N</b>	<b>PVC Solid</b>	<b>0 12</b>	

---

**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 #22989

Owner: **Castro Oil & Gas Inc.**

Owner Well #: **MW-6**

Address: **P.O. Box 739  
Dimmitt, TX 79027**

Grid #: **10-30-5**

Well Location: **500 W. Bedford  
Dimmitt, TX 79027**

Latitude: **34° 33' 04" N**

Longitude: **102° 18' 48" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **7/10/2003**

Drilling End Date: **7/11/2003**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>340</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>280</b>	<b>340</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>268</b>	
	<b>268</b>	<b>280</b>	

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **310 ft. below land surface on 2003-07-11** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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: **T&T Drilling**  
**P.O. Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder**

License Number: **1862**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>3</b>	<b>Brown Top Soil</b>
<b>3</b>	<b>34</b>	<b>Brown Sandy Clay</b>
<b>34</b>	<b>75</b>	<b>White Caliche &amp; Brown Sandy Clay</b>
<b>75</b>	<b>186</b>	<b>Brown Sand &amp; Sandstone</b>
<b>186</b>	<b>187</b>	<b>Hard Rock</b>
<b>187</b>	<b>340</b>	<b>Brown Sandy Clay &amp; Sand</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>4 N</b>	<b>PVC Solid</b>	<b>0/300</b>	
<b>4 N</b>	<b>PVC Slotted</b>	<b>300/340 .020</b>	

---

#### 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**

## WELL SCHEDULE

State Well No. 1030313 Previous Well No. 19 County CASTRO 069  
10 17 19 26 28 30  
River Basin BRAZOS 12 Zone 1 Lat. 34 33 10 Long. 102 18 35 Source of Coord. 3  
32 33 35 37 42 44 50 52  
Owner's Well No. Second well Location 1/4, 1/4, Section 1/4, Block 1/4, Survey 1/4  
located near 503

Owner CITY OF DIMMITT

Driller A. B. HAYS

Address \_\_\_\_\_ Address \_\_\_\_\_

[illegible]

Date Drilled 

--	--

--	--

1	9	3	7
---	---	---	---

  
10 17

Depth 

--	--

2	4	3
---	---	---

  
19 23

Source of Depth Datum 

R
---

  
25

Altitude 

3	8	7	7
---	---	---	---

  
27 30

Source of Alt. Datum 

M
---

  
32

Aquifer Ogallala

1	2	1	0	4	2	2
---	---	---	---	---	---	---

 Well Type 

W
---

 User 

2	3	0	8	0	0		
---	---	---	---	---	---	--	--

Well Construction	Const. Method _____	<input type="checkbox"/>	Casing Material _____	<input type="checkbox"/>	Casing or Blank Pipe (C) Well Screen or Slotted Zone (S) Open Hole (O) Cemented from _____ to _____ Diam. (in.) _____ Setting (feet) _____ From _____ To _____
	Screen Material _____	<input type="checkbox"/>	Completion _____	<input type="checkbox"/>	
		55		57	
		59		61	

Lift Data Pump Mfr. \_\_\_\_\_ Type \_\_\_\_\_ ☐ No. Stages \_\_\_\_\_ 10 23  
Bowls Diam. \_\_\_\_\_ in. Setting \_\_\_\_\_ ft. Column Diam. \_\_\_\_\_ in. Length Tailpipe \_\_\_\_\_ ft. 26 39  
Motor Mfr. \_\_\_\_\_ Fuel or Power \_\_\_\_\_ ☐ Horsepower ☐ 42 55  
65 67 73 58 71


















Yield Flow \_\_\_\_\_ GPM Pump \_\_\_\_\_ GPM Meas., Rept., Est. \_\_\_\_\_ Date \_\_\_\_\_

Performance Test Date \_\_\_\_\_ Length of Test \_\_\_\_\_ Production \_\_\_\_\_ GPM

Static Level \_\_\_\_\_ ft. Pumping Level \_\_\_\_\_ ft. Drawdown \_\_\_\_\_ ft. Sp. Cap. \_\_\_\_\_ GPM/ft.

[illegible]

Water Use Primary Use Unused ☒ 10 Secondary Use ☐ 12 Tertiary Use ☐ 14 42 55

Other Data Available    Water Level  16    Water Quality  18    Logs       20    Other Data      27        31

Water Levels  $7.1$  Date 11/2/13 11/3/17 Meas. 1155 • 70 ft. ☒ Above ☐ Below Landsurface  
Date                               Meas.                •      ft. ☒ Above ☐ Below Landsurface

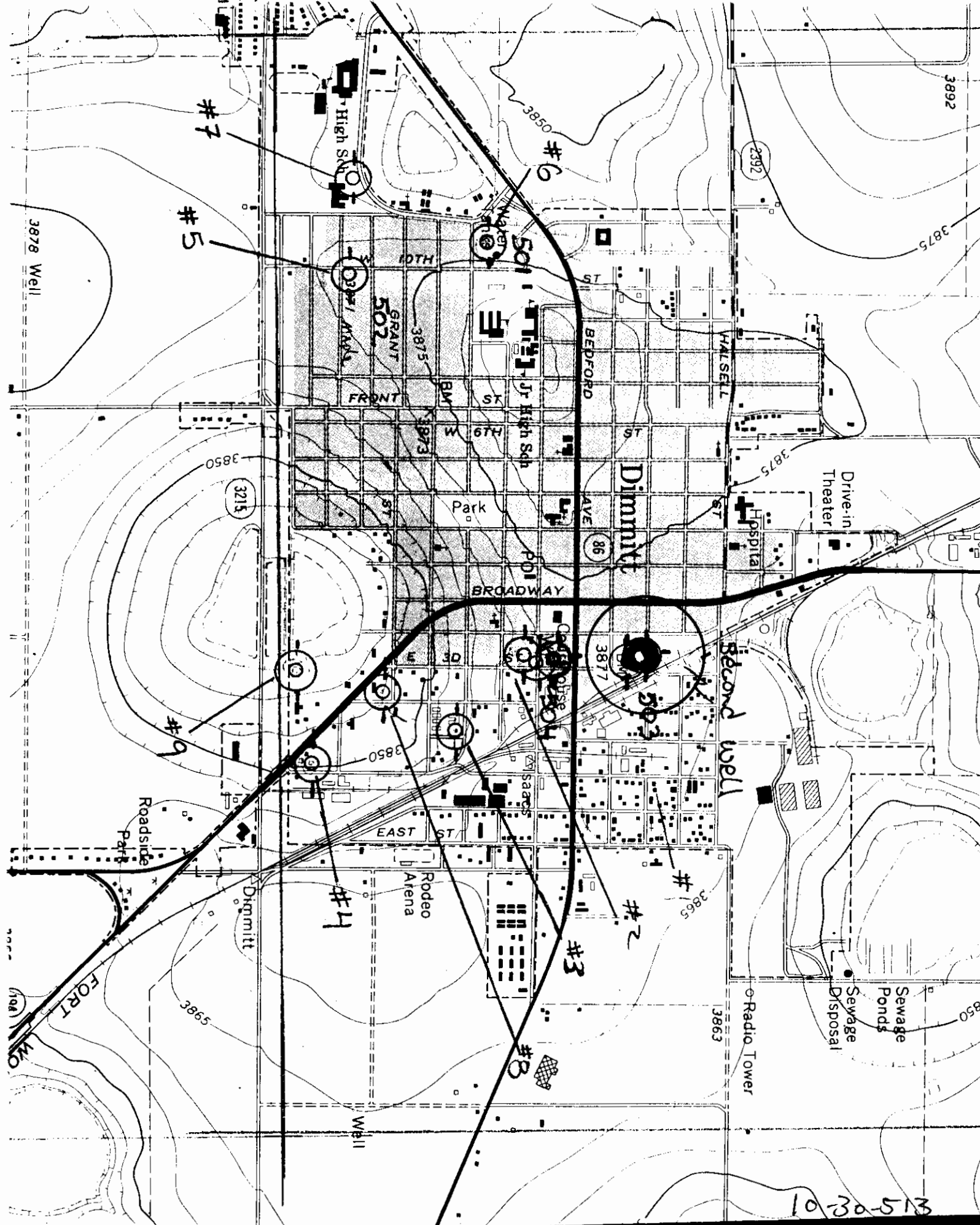
Recorded By P. Christiano Date Record Collected or Updated 08/16/1989 Reporting Agency 01

Remarks	10	City Well Abandoned and Plugged in	44	Well Schedule In TWDB File	U
	46	1938. Well 186 in TBNW Report M-34.	80		45
	10	Location approximated.	44		
	46		80		
	10		44		
	46		80		

Agguifer Agallala

Well No 10 - 30 - 513





10-30-513



Texas Water Development Board  
Well Schedule



State Well Number: **10-30-503** Previous Well Number: **old #2** County: **Castro** **69**

Latitude (dms): **343309** Longitude (dms): **1021835** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Brazos River** GMA: **2** RWPA: **O** GCD: **High Plains UWCD #1**

Owner: **City of Dimmitt**  
**Well #1**

Driller:

Aquifer ID: **Ogallala**

Aquifer Code: **121OGLL**

Depth (ft): **423**

Elevation (ft): **3874**

**OGALLALA  
FORMATION**

Source of Depth: **Another Government  
Agency**

Source of Elevation: **Digital Elevation  
Model -DEM**

Date Drilled: **00/00/1954**

Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump**

Power: **Electric Motor**

Horsepower:

Construction: **Hydraulic Rotary**

Completion: **Perforated or Slotted**

Casing Material: **Steel**

Screen Material: **Steel**

CASING INTERVALS:  
Casing/Blank Pipe (C)  
Well Screen/Slotted Zone (S)  
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	16	0	180
S	16	180	423

WATER USE

Primary: **Public  
Supply**

Secondary:

Tertiary:

Water Levels: **Miscellaneous Measurements**

Water Quality: **Y**

**2 measurements**

**1960 to 1989**

**MIN -277.4 MAX -180**

Other Data:

Logs:

REMARKS:

City well #1. Reported yield 540  
GPM in 1960. PWS ID #0350001A.

Reporting Agency: **TWDB or Predecessor  
Agency**

Date Collected or Reported: **08/16/1989**

Recorded by:

D R Jones

# AS WATER DEVELOPMENT BOARD

## WELL SCHEDULE

State Well No. 10 30 503 Previous Well No. 012 #2 County Castro 069

River Basin Brazos 12 Zone 1 Lat. 34 33 09 Long. 102 18 34 Source of Coord. 1

Owner's Well No. #1 Location 1/4, 1/4, Section       , Block       , Survey       

NEAR RD TRACKS

Owner CITY OF Dimmitt Driller       

Address        Address       

Tenant        Address       

Date Drilled 1954 Depth 423 Source of Depth Datum R Altitude 3877 Source of Alt. Datum M

Aquifer Ogallala 1210GLL Well Type M User 230800

Well Construction Const. Method Rotary H Casing Material Steel S Screen Material Steel S Completion Perf P

Lift Data Pump Mfr.        Type TURBINE T No. Stages        Bowls Diam.        in. Setting        ft. Column Diam. 10 in. Length Tailpipe        ft. Motor Mfr.        Fuel or Power Electric E Horsepower 100.00

Yield Flow        GPM Pump        GPM Meas., Rept., Est.        Date       

Performance Test Date 10-18-1960 Length of Test 1 hr Production 540 GPM Static Level 180 ft. Pumping Level        ft. Drawdown        ft. Sp. Cap.        GPM/ft.

Quality (Remarks on Taste, Odor, Color, Etc.)       

Water Use Primary Use PS D Secondary Use        Tertiary Use       

Other Data Available Water Level M Water Quality Y Logs        Other Data       

Water Levels Date 08 16 1989 Meas. 277.40 ft. Below Landsurface Date 10 18 1960 Meas. 180.00 ft. Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 Reporting Agency 01

Remarks CITY well #1. Reported yield 540 GPM in 1960.

Aquifer Ogallala Well No. 10-30-503

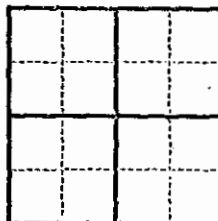
9-185--July 1935  
Revised

UNITED STATES 10-50-503  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES BRANCH

WELL SCHEDULE

Date 10-18, 1960 Field No. C-87  
Record by Rittman Office No. 2  
Source of data C&G for Water Supply

1. Location: State Texas County Castro  
Map  
1/4 1/4 sec. T S R E W  
2. Owner: City of Dimmitt Address  
Tenant Address  
Driller Address  
3. Topography Flat  
4. Elevation ft. above  
below  
5. Type: Dug, drilled, driven, bored, jetted 19.54  
6. Depth: Rept. 423 ft. Meas. ft.  
7. Casing: Diam. 16 in., to in., Type  
Depth 423 ft., Finish  
8. Chief Aquifer Ogallala From ft. to ft.  
Others  
9. Water level ft. rept. 19 above  
meas. below  
which is ft. above  
below surface  
10. Pump: Type T Capacity 8" G. M.  
Power: Kind Free Horsepower 100  
11. Yield: Flow G. M., Pump 543 G. M., Meas., Rept. Est.  
Drawdown ft. after hours pumping G. M.  
12. Use: Dom., Stock, PS, RR., Ind., Irr., Obs.  
Adequacy, permanence  
13. Quality Temp 63 °F.  
Taste, odor, color Sample Yes 10/19/60  
No  
Unfit for  
14. Remarks: (Log, Analyses, etc.) City history



USGS-WRO  
Form CR  
Well No.

10-30-5703

ANALYTICAL STATEMENT

COUNTY

LAB NO. 70269

CASTRO

Location Dimmitt, Texas

Date of collection Oct. 18, 1960

Ignition Loss

Disolved Solids:

Calculated (sum) 372

Residue at 180°C. (374)

Tons per acre foot 51

Hardness as CaCO<sub>3</sub> 195

N.C. hardness 0

z No. 34 SAM 1.5 RSC

Specific conductance

(microhmohms at 25°C) 568

pH 7.3 color

Send copy to:

City of Dimmitt

Box 263

Dimmitt, Texas

Source (type of well) drilled

Owner City of Dimmitt

Date dtd. 1954

Depth 426 423

WHF Ogallala

Producing intervals 180 to 426

Water level 180

ft

Sampled after pumping 1 hr.

Yield 540 gpm pump meas.

Rt of coll. At Well

Appearance clear

Temp (°F) 63 use Pub. Supply

Collector Paul Retman

Chemist D.K. Telford

Date completed Nov. 2, 1960

Checked by WJ

Date transmitted NOV 18 1960

SiO<sub>2</sub>

epm

ppm

Fe

60

01

Fe (total)

08

Co

1.60

32

Mg

2.30

28

Na

2.09

48

K

18

7.2

Na+K

6.17

HCO<sub>3</sub>

4.80

293

CO<sub>3</sub>

00

0

SO<sub>4</sub>

71

34

Cl

42

15

F

15

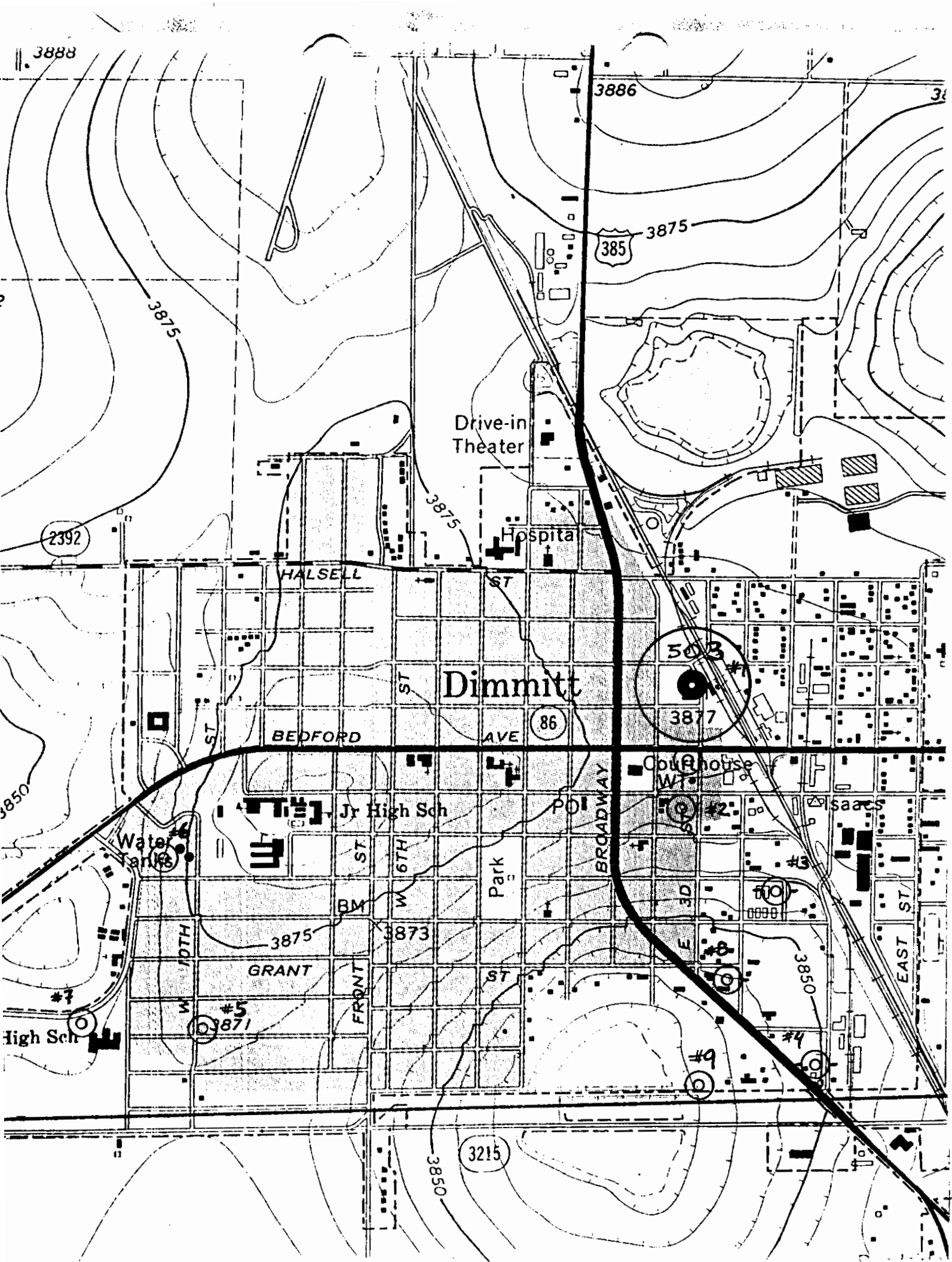
2.8

NO<sub>3</sub>

02

1.2

-6.10  
+0.6 % Error



## STATE OF TEXAS WELL REPORT for Tracking #24774

Owner: **City of Dimmitt**  
Address: **200 E. Jones  
Dimmitt, TX 79027**  
Well Location: **110 E. 3rd  
Dimmitt, TX 79027**  
Well County: **Castro**

Owner Well #: **B-3**  
Grid #: **10-30-5**  
Latitude: **34° 33' 03" N**  
Longitude: **102° 18' 33" W**  
Elevation: **No Data**

Type of Work: **Unknown**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **8/13/2003**

Drilling End Date: **8/13/2003**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>2</b>	<b>0</b>	<b>15</b>

Drilling Method: **Direct Push**

Borehole Completion: **Plugged**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>15</b>	<b>1</b>

Seal Method: **Positive Placement**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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: **Peterson Drilling & Testing, Inc.**

**P O Box 30699  
Amarillo, TX 79120**

Driller Name: **Roy Wedell**

License Number: **54243**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>From (ft)</i>	<i>To (ft)</i>	<i>Description</i>
<b>0</b>	<b>7</b>	<b>Loose to Slightly Compact. Very Little Moisture</b>
<b>7</b>	<b>11</b>	<b>Hard Clayey Silt with Some Caliche Grains</b>
		<b>Nodules and streaks</b>
<b>11</b>	<b>15</b>	<b>Hard Clayey Silt</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>No Data</b>			

---

**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**



# TARRANT WATER DEVELOPMENT BOARD

## WELL SCHEDULE

State Well No. 10 30 512 Previous Well No.            County Castro 069  
 River Basin Brazos 12 Zone 1 Lat. 34 33 00 Long. 102 18 34 Source of Coord. 3

Owner's Well No. First well Location 1/4, 1/4, Section Block            Survey             
1 Block East of Courthouse (not well 504)

Owner CITY OF DIMITT Driller D. L. McDonald

Address            Address           

Tenant            Address           

Date Drilled 1929 Depth 206 Source of Depth Datum R Altitude 3870 Source of Alt. Datum M

Aquifer Ogallala 12104LL Well Type W User 230800

Well Construction Const. Method            Casing Material            Screen Material            Completion           

Lift Data Pump Mfr.            Type            No. Stages             
 Bowls Diam.            in. Setting            ft. Column Diam.            in. Length Tailpipe            ft.  
 Motor Mfr.            Fuel or Power            Horsepower           

Yield Flow            GPM Pump            GPM Meas., Rept., Est.            Date           

Performance Test Date            Length of Test MAN. hrs Production 75-100 GPM  
 Static Level 160 ft. Pumping Level 175 ft. Drawdown 15 ft. Sp. Cap.            GPM/ft.

Quality (Remarks on Taste, Odor, Color, Etc.)           

Water Use Primary Use Unused Secondary Use            Tertiary Use           

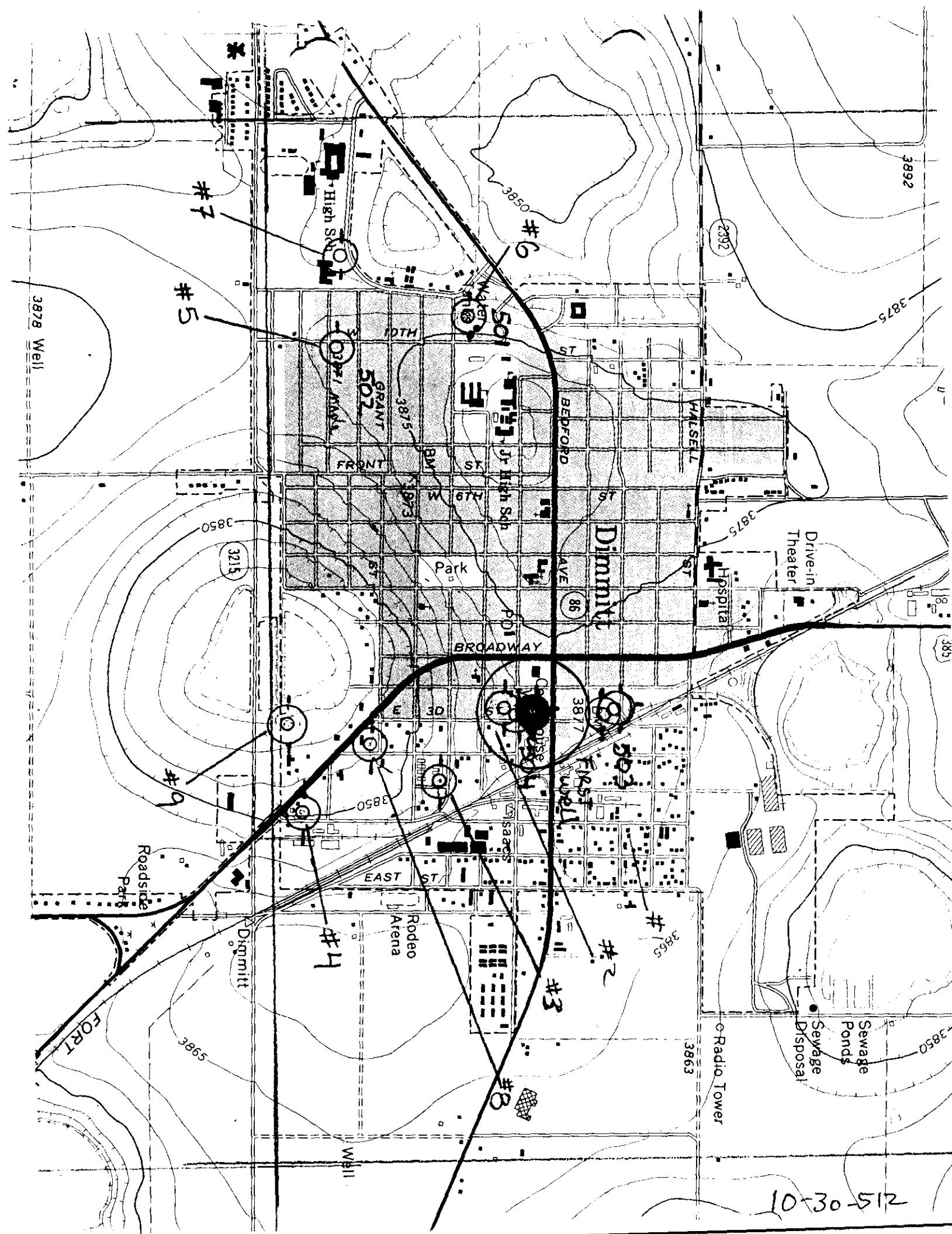
Other Data Available Water Level M Water Quality Y Logs            Other Data           

Water Levels Date            Meas.            ft. (+) Above (-) Below Landsurface  
 Date            Meas.            ft. (+) Above (-) Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 Reporting Agency 01

Remarks CITY well ABANDONED AND DESTROYED.  
Well 185 in TBWE report M-34. Well  
#1 in TBWE report M-216. Location  
Approximated.

Aquifer Ogallala  
 Well No. 10-30-512



10-30-512

CASTRO COUNTY

Dimmitt

Population in 1940: 943.

Source of information: Glen Smith, water superintendent,  
Mar. 7, 1941.

Ownership: Municipal.

Source of supply: Well 1 block east of courthouse; drilled in 1929 by D. L. McDonald; depth, 206 feet; diameter, 16 inches; deep-well turbine pump and 25-horsepower electric motor; yield, 600 gallons a minute; temperature, 63° F.

Pumpage (estimated): Summer, 400,000 gallons a day; winter, 100,000 gallons a day.

Storage: Concrete reservoir, 250,000 gallons; elevated tank, 50,000 gallons.

Number of customers: 250.

Treatment: None.

Analysis

[Collected Mar. 7, 1941]

Analyzed by J. H. Rowley]

	Parts per million	Equivalents per million
Silica (SiO <sub>2</sub> )	44	
Iron (Fe)	.16	
Calcium (Ca)	55	2.75
Magnesium (Mg)	33	2.71
Sodium (Na)	13	.55
Potassium (K)	6.2	.16
Bicarbonate (HCO <sub>3</sub> )	288	4.72
Sulfate (SO <sub>4</sub> )	38	.79
Chloride (Cl)	19	.54
Fluoride (F)	2.2	.12
Nitrate (NO <sub>3</sub> )	.2	.00
Dissolved solids	353	
Total hardness as CaCO <sub>3</sub>	273	
pH	7.6	

10-30-512

CASTRO COUNTY

Dimmitt -- Continued

Driller's log of abandoned well 160 feet east of city well

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Top soil	4	4	Lime rock	6	218
Caliche	11	15	Water sand and sand		
Red sand	5	20	rock	60	278
Sandrock	15	35	Lime rock	12	290
Sand and sandrock	63	98	Water sand and sand-		
Hard sand	52	150	rock	38	328
White lime	10	160	Hard sandrock	17	345
Water sand	4	164	Water sand and sand-		
Sandrock	4	168	rock	49	394
Water sand and sandrock	44	212	Yellow clay	8	402
			Lime rock	13	415
			"Red beds"	2	417

Child  
inches  
31 feet  
64 gallons

1947;  
horse  
Mar.  
Aug.

1947;  
5-horse  
Mar.  
Aug.

1947;  
feet  
measured

1947;  
5-horse  
Aug.  
Aug.

1947;  
5-horse  
Aug.  
Aug.

1947;  
5-horse  
Aug.  
Aug.

10-30-512



**Texas Water Development Board  
Well Schedule**



State Well Number: **10-30-506** Previous Well Number: **2714** County: **Castro** **69**

Latitude (dms): **343259** Longitude (dms): **1021837** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Brazos River** GMA: **2** RWPA: **O** GCD: **High Plains UWCD #1**

Owner: **City of Dimmitt  
Well #2**

Driller: **West Texas  
Drilling Co.**

Aquifer ID: **Ogallala**

Aquifer Code: **121OGLL**

Depth (ft): **410**

Elevation (ft): **3870**

**OGALLALA  
FORMATION**

Source of Depth: **Driller's Log**

Source of Elevation: **Digital Elevation  
Model -DEM**

Date Drilled: **01/26/1967**

Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump**

Power: **Electric Motor**

Horsepower: **75.00**

Construction: **Hydraulic Rotary**

Completion: **Perforated or Slotted**

Casing Material: **Steel**

Screen Material: **Steel**

CASING INTERVALS:  
Casing/Blank Pipe (C)  
Well Screen/Slotted Zone (S)  
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	16	0	200
S	16	200	400
C	16	400	410

**WATER USE**

Primary: **Public  
Supply**

Secondary:

Tertiary:

Water Levels: **Miscellaneous Measurements**

Water Quality: **Y**

**1 measurement**

**1967**

**-200**

Other Data: **C**

Logs: **D**

**REMARKS:**

**City well #2. Reported yield 536  
GPM with 102 feet drawdown in 1967.  
Specific capacity 5.25 gpm/ft.  
Pumping level 302 feet. Pump set at  
340 feet. PWS ID #0350001B.**

Reporting Agency: **TWDB or Predecessor  
Agency**

Date Collected or Reported: **03/12/1996**

Recorded by: **D. R. Jones**

*update*

# WATER DEVELOPMENT BOARD

## WELL SCHEDULE

State Well No. 10 30 506 Previous Well No. 2714 County Castro 069  
 River Basin Brazos 12 Zone 1 Lat. 34 32 57 Long. 102 18 35 Source of Coord. 1

Owner's Well No. #2 Location 1/4, 1/4, Section       , Block       , Survey       

Directly Behind City Hall

Owner City of Dimmitt Driller West Texas Drilling, Inc.

Address        Address P.O. Box 126  
 Tenant        Address Hereford, Tx.

Date Drilled 01 26 1967 Depth 410 Source of Depth Datum D Altitude 3867 Source of Alt. Datum M

Aquifer Gallala 1210GLL Well Type M User 230800

Well Construction Const. Method Mud Rotary H Casing Material Steel S  
 Screen Material Steel S Completion Straight Wall P

Lift Data Pump Mfr.        Type Turbine T No. Stages 6  
 Bowls Diam. 12 in. Setting 340 ft. Column Diam. 6 in. Length Tailpipe        ft.  
 Motor Mfr.        Fuel or Power Electric E Horsepower 75.00

Yield Flow        GPM Pump        GPM Meas., Rept., Est.        Date         
 Performance Test Date 01-26-1967 Length of Test        Production 536 GPM  
 Static Level 200 ft. Pumping Level 302 ft. Drawdown 102 ft. Sp. Cap. 5 GPM/ft.

Quality (Remarks on Taste, Odor, Color, Etc.)       

Water Use Primary Use PS P Secondary Use               Tertiary Use              

Other Data Available Water Level M Water Quality M Logs D                                    Other Data                                   

Water Levels 7-7 Date 01 26 1967 Meas. 200.00 ft. (+) Above (-) Below Landsurface  
 Date        Meas.        ft. (+) Above (-) Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 Reporting Agency 01

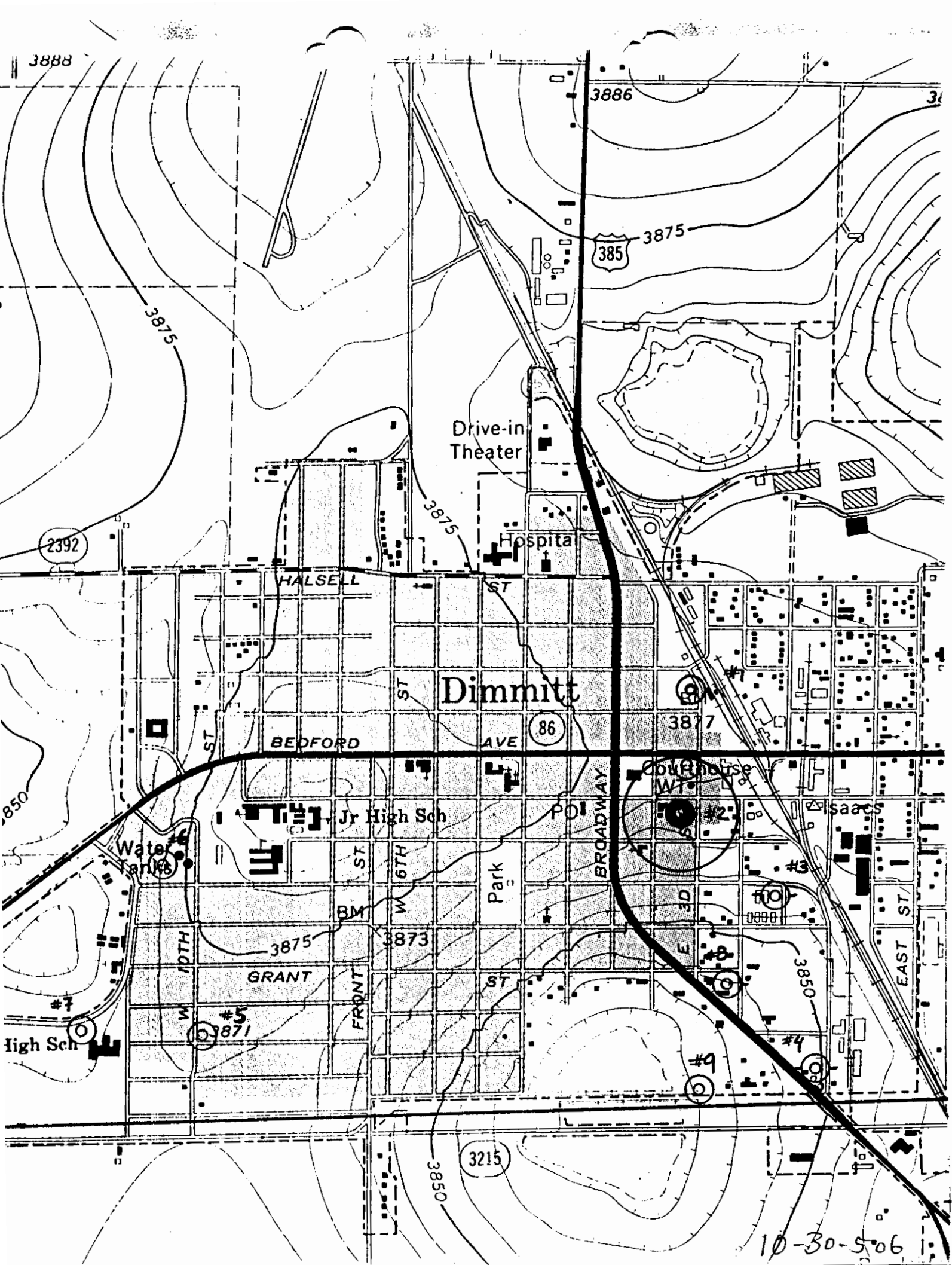
Remarks City Well #2. Reported yield 536 GPM with 102 feet drawdown in 1967.

Aquifer Gallala  
 Well No. 10 30 506

Send original copy by certified mail to the Texas Water Development Board P. O. Box 12066 Austin, Texas 78711	State of <u>Texas</u> <b>WATER WELL DRILLER</b>	For TWDB use only Well No. <u>10-30-506</u> Located on map <u>10-30-506</u> Received: <u>6-7-67</u> Form GW 8 Form GW 9
---	--	--

1) OWNER: Person having well drilled <u>City of Dimmitt</u> Address <u>Dimmitt, Texas</u> <small>(Name) (Street or RFD) (City) (State)</small> Landowner <u>Same</u> Address _____ <small>(Name) (Street or RFD) (City) (State)</small>																																																				
2) LOCATION OF WELL: <u>Castro</u> Labor _____ League _____ Abstract No. _____ NW 1/4 NE 1/4 SW 1/4 SE 1/4 of Section _____ Block No. _____ Survey _____ <small>(Circle as many as are known)</small> miles in _____ direction from _____ <small>(NE, SW, etc.) (Town)</small> <u>Directly behind city hall.</u>																																																				
Sketch map of well location with distances from adjacent section or survey lines, and to landmarks, roads, and creeks.																																																				
3) TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Plugging <input type="checkbox"/>	4) PROPOSED USE (Check): Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>	5) TYPE OF WELL (Check): Rotary <input checked="" type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Cable <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>																																																		
6) WELL LOG: Diameter of hole <u>28"</u> in. Depth drilled <u>410</u> ft. Depth of completed well <u>410</u> ft. Date drilled <u>1/26/67</u> All measurements made from _____ ft. above ground level.																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>4</td><td>Top Soil</td></tr> <tr><td>4</td><td>50</td><td>Caliche</td></tr> <tr><td>50</td><td>75</td><td>Sandy Clay</td></tr> <tr><td>75</td><td>140</td><td>Sand, Stone, &amp; Some Clay</td></tr> <tr><td>140</td><td>220</td><td>Sand &amp; Stone</td></tr> <tr><td>220</td><td>240</td><td>Sand &amp; Lots of Clay</td></tr> <tr><td>240</td><td>255</td><td>Sand &amp; Clay Strips</td></tr> <tr><td>255</td><td>275</td><td>White Clay, Some Sand</td></tr> </tbody> </table>	From (ft.)	To (ft.)	Description and color of formation material	0	4	Top Soil	4	50	Caliche	50	75	Sandy Clay	75	140	Sand, Stone, & Some Clay	140	220	Sand & Stone	220	240	Sand & Lots of Clay	240	255	Sand & Clay Strips	255	275	White Clay, Some Sand	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>275</td><td>280</td><td>Sand &amp; Clay &amp; Some Gravel</td></tr> <tr><td>280</td><td>290</td><td>Medium Coarse Sand &amp; Some Gravel Mixed with Clay</td></tr> <tr><td>290</td><td>340</td><td>Sand, Stone &amp; Clay Mixed</td></tr> <tr><td>340</td><td>390</td><td>Sand &amp; Stone</td></tr> <tr><td>390</td><td>405</td><td>Gravel</td></tr> <tr><td>405</td><td>410</td><td>Red Bed</td></tr> <tr><td colspan="3" style="text-align: right;">(Use reverse side if necessary)</td></tr> </tbody> </table>	From (ft.)	To (ft.)	Description and color of formation material	275	280	Sand & Clay & Some Gravel	280	290	Medium Coarse Sand & Some Gravel Mixed with Clay	290	340	Sand, Stone & Clay Mixed	340	390	Sand & Stone	390	405	Gravel	405	410	Red Bed	(Use reverse side if necessary)		
From (ft.)	To (ft.)	Description and color of formation material																																																		
0	4	Top Soil																																																		
4	50	Caliche																																																		
50	75	Sandy Clay																																																		
75	140	Sand, Stone, & Some Clay																																																		
140	220	Sand & Stone																																																		
220	240	Sand & Lots of Clay																																																		
240	255	Sand & Clay Strips																																																		
255	275	White Clay, Some Sand																																																		
From (ft.)	To (ft.)	Description and color of formation material																																																		
275	280	Sand & Clay & Some Gravel																																																		
280	290	Medium Coarse Sand & Some Gravel Mixed with Clay																																																		
290	340	Sand, Stone & Clay Mixed																																																		
340	390	Sand & Stone																																																		
390	405	Gravel																																																		
405	410	Red Bed																																																		
(Use reverse side if necessary)																																																				
7) COMPLETION (Check): Straight well <input type="checkbox"/> Gravel packed <input type="checkbox"/> Other <input type="checkbox"/> Under reamed <input type="checkbox"/> Open hole <input type="checkbox"/>		8) WATER LEVEL: Static level <u>200</u> ft. below land surface Date _____ Artesian pressure _____ lbs. per square inch Date _____																																																		
9) CASING: Type: old <input type="checkbox"/> New <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Plastic <input type="checkbox"/> Other <input type="checkbox"/> Cemented from _____ ft. to _____ ft.		10) SCREEN: Type _____ Perforated <input checked="" type="checkbox"/> Slotted <input type="checkbox"/>																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Diameter (inches)</th> <th colspan="2">Setting</th> <th rowspan="2">Cage</th> </tr> <tr> <th>From (ft.)</th> <th>To (ft.)</th> </tr> </thead> <tbody> <tr> <td>16"</td> <td>0</td> <td>410</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Diameter (inches)	Setting		Cage	From (ft.)	To (ft.)	16"	0	410														<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Diameter (inches)</th> <th colspan="2">Setting</th> <th rowspan="2">Slot size</th> </tr> <tr> <th>From (ft.)</th> <th>To (ft.)</th> </tr> </thead> <tbody> <tr> <td> </td> <td>200</td> <td>16 Row 1/8</td> <td> </td> </tr> <tr> <td> </td> <td>10</td> <td>Blank</td> <td> </td> </tr> <tr> <td> </td> <td>210</td> <td>400</td> <td> </td> </tr> </tbody> </table>	Diameter (inches)	Setting		Slot size	From (ft.)	To (ft.)		200	16 Row 1/8			10	Blank			210	400												
Diameter (inches)		Setting			Cage																																															
	From (ft.)	To (ft.)																																																		
16"	0	410																																																		
Diameter (inches)	Setting		Slot size																																																	
	From (ft.)	To (ft.)																																																		
	200	16 Row 1/8																																																		
	10	Blank																																																		
	210	400																																																		
11) WELL TESTS: Was a pump test made? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes by whom? _____ Yield: _____ gpm with _____ ft. drawdown after _____ hrs Bailor test _____ gpm with _____ ft. drawdown after _____ hrs Artesian flow _____ gpm Date _____ Temperature of water _____ Was a chemical analysis made? <input type="checkbox"/> Yes <input type="checkbox"/> No Did any strata contain undesirable water? <input type="checkbox"/> Yes <input type="checkbox"/> No Type of water? _____ depth of strata _____		12) PUMP DATA: Manufacturer's Name _____ Type _____ H.P. _____ Designed pumping rate _____ gpm <input type="checkbox"/> gph <input type="checkbox"/> Type power unit _____ Depth to bowls, cylinder, jet, etc., _____ ft. below land surface.																																																		
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. NAME <u>J.D. Kirkland</u> Water Well Drillers Registration No. <u>#2</u> <small>(Type or Print)</small> Address <u>P.O. Box 926</u> <u>Hereford</u> <u>Texas</u> <small>(Street or RFD) (City) (State)</small> (Signed) <u>J.D. Kirkland</u> <u>West Texas Drilling Company</u> <small>(Water Well Driller) (Company Name)</small>																																																				
Please attach electric log, chemical analysis, and other pertinent information, if available. <span style="float: right;"><u>10-30-506</u></span>																																																				



10-30-506



# Water Quality Sampling Run

SWN: 10-30-506  
 County: CASTRD  
 Aquifer(s): 121 DGLL

Name: CITY OF DIMMITT Sample No. 729  
 Address: ATTN: KAREN Date: 3-12-1996  
P.O. Box 146 Dimmitt TX 79027 By: John ASENSIO

Bottle 1		Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total SUB-Samples
1 liter	1 liter	1 liter	500 ml	1 Qt.(glass)				
Anions	Cations	Radioactivity	Nitrate	(TOC)Organics				
2 ml	2 ml	1 ml						
HNO <sub>3</sub> (Nitric)	HNO <sub>3</sub> (Nitric)	H <sub>2</sub> SO <sub>4</sub> (Sulfuric)						
Preserve with: _____ unless otherwise stipulated. All on ice.								
Water Level _____ LSD Remark _____ Temperature (00010) _____ c _____ Specific Conductance (00094) _____ umhos/cm _____ pH (00400) _____ Eh (00090) _____ mv. Phenol ALK (82244) _____ mg/l Total ALK (39086) _____ mg/l Carbonate (00452) _____ meq/l Bicarbonate (00453) _____ meq/l Total Cations(+) _____ Total Anions (-) _____ Total Hardness (46570) _____ Dissolved Solids(70301) _____								
Time in: <u>11:30</u> Time out: _____ Weather: _____ Outside Temp: _____ Sampling point: _____ Starting pH _____ ml. of 0.02N to _____ ml. of Sample _____ Ending pH _____								
other notes: <u>Well # 2</u>								

# TEXAS WATER DEVELOPMENT BOARD

GRAB  
HACH SAMPLES

SAMPLE# 729 WELL# 10-30-506  
COUNTY CASTRO DATE/TIME 3-12-1996 11:30  
OWNER'S NAME CITY OF DIMMITT COLLECTED BY John ASENSIO  
ADDRESS ATTN: KAREN P.O. Box 146 DIMMITT TX 79027  
DATE DRILLED \_\_\_\_\_ OWNER'S WELL NAME OR NUMBER well # 2  
USE PUBLIC DEPTH \_\_\_\_\_  
COLLECTION POINT FAUCET SEND COPY TO OWNER ☒ YES ☐ NO  
ANALYST Robert Ozment DATE ANALYZED 4-9-96

Silica	<u>0.7</u> mg/l	Phenol Alk CaCO <sub>3</sub>	<u>0</u> mg/l
Magnesium	<u>24.0</u> mg/l	Total Alk CaCO <sub>3</sub>	<u>260.0</u> mg/l
Calcium	<u>34.0</u> mg/l	Specific Cond.	_____
Sodium(calculated)	_____ mg/l	pH	<u>6.79</u>
Potassium	<u>6.0</u> mg/l	Eh	_____
Sulfate	<u>50.0</u> mg/l	Temperature	_____ °C
Chloride	<u>30.0</u> mg/l		
Fluoride	<u>2.68</u> mg/l		
Nitrate (as N)	_____ mg/l	X 4.43 = Nitrate (as NO <sub>3</sub> )	_____ mg/l
Iron (01046)	_____ ug/l		
Phosphate (00671)	_____ mg/l		

BTL = Below Detection Limits of the Machine

OHT = Out of Hold Time

These results are from a HACH DR2000 spectrophotometer, operated by the Hydrographic Monitoring Section of the Texas Water Development Board

# AS WATER DEVELOPMENT BOARD

## WELL SCHEDULE

State Well No. 10 30 504 Previous Well No.            County Castro 069

River Basin Brazos 12 Zone 1 Lat. 34 32 59 Long. 102 18 34 Source of Coord. 1

Owner's Well No. Old #1 Location 1/4, 1/4, Section Block            Survey           

Jones Street and 3RD

Owner CITY OF DIMITT Driller D L McDonald

Address            Address           

Tenant            Address           

Date Drilled 1945 Depth 395 Source of Depth Datum R Altitude 3868 Source of Alt. Datum M

Aquifer Gallala 1210GLL Well Type U User 230800

Well Construction Const. Method            Casing Material            Screen Material            Completion           

Lift Data Pump Mfr.            Type            No. Stages            Bowls Diam.            in. Setting            ft. Column Diam.            in. Length Tailpipe            ft. Motor Mfr.            Fuel or Power            Horsepower           

Yield Flow            GPM Pump            GPM Meas., Rept., Est.            Date           

Performance Test Date            Length of Test            Production            GPM

Static Level            ft. Pumping Level            ft. Drawdown            ft. Sp. Cap.            GPM/ft.

Quality (Remarks on Taste, Odor, Color, Etc.)           

Water Use Primary Use Used U Secondary Use            Tertiary Use           

Other Data Available Water Level M Water Quality Y Logs            Other Data           

Water Levels 4-7 Date 06 20 1955 Meas. 160.00 ft. (+) Above (-) Below Landsurface Date            Meas.            ft. (+) Above (-) Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 Reporting Agency CI

Remarks CITY well ABANDONED AND DESTROYED. LOCATION APPROXIMATED.

Aquifer Gallala Well No. 10-30-504

9-185-July 1935  
Revised

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WATER RESOURCES BRANCH

10-30-504

30504

WELL SCHEDULE

Date March 21, 1961 Field No. 1  
Record by Reffarow Office No. \_\_\_\_\_  
Source of data City Records

1. Location: State Texas County Castro  
Map \_\_\_\_\_  
\_\_\_\_\_  $\frac{1}{4}$  sec. T \_\_\_\_\_ N R \_\_\_\_\_ E W  
2. Owner: City of Dimmitt Address \_\_\_\_\_  
Tenant \_\_\_\_\_ Address \_\_\_\_\_  
Driller D. L. Mc Donald Address \_\_\_\_\_  
3. Topography \_\_\_\_\_  
4. Elevation \_\_\_\_\_ ft. above \_\_\_\_\_ below  
5. Type: Dug, drilled, driven, bored, jetted \_\_\_\_\_ 1945  
6. Depth: Rept. 32.5 ft. Meas. \_\_\_\_\_ ft.  
7. Casing: Diam. 16 in., to \_\_\_\_\_ in., Type \_\_\_\_\_  
Depth 32.5 ft., Finish \_\_\_\_\_  
8. Chief Aquifer \_\_\_\_\_ From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Others \_\_\_\_\_  
9. Water level \_\_\_\_\_ ft. rept. \_\_\_\_\_ 19 \_\_\_\_\_ above \_\_\_\_\_ below  
\_\_\_\_\_ which is \_\_\_\_\_ ft. above \_\_\_\_\_ below surface  
10. Pump: Type T Capacity \_\_\_\_\_ G. M.  
Power: Kind E Horsepower \_\_\_\_\_  
11. Yield: Flow \_\_\_\_\_ G. M., Pump \_\_\_\_\_ G. M., Meas., Rept. Est. \_\_\_\_\_  
Drawdown \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ G. M.  
12. Use: Dom., Stock, P.S., R.R., Ind., Irr., Obs. \_\_\_\_\_  
Adequacy, permanence \_\_\_\_\_  
13. Quality \_\_\_\_\_ Temp. \_\_\_\_\_ °F  
Taste, odor, color \_\_\_\_\_ Sample Yes \_\_\_\_\_ No 6/20/55  
Unfit for \_\_\_\_\_  
14. Remarks: (Log, Analyses, etc.) City has log  
any other log  
Radio Element # 16

9-260  
(January 1950)

UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION

Field No. 16 ANALYTICAL STATEMENT

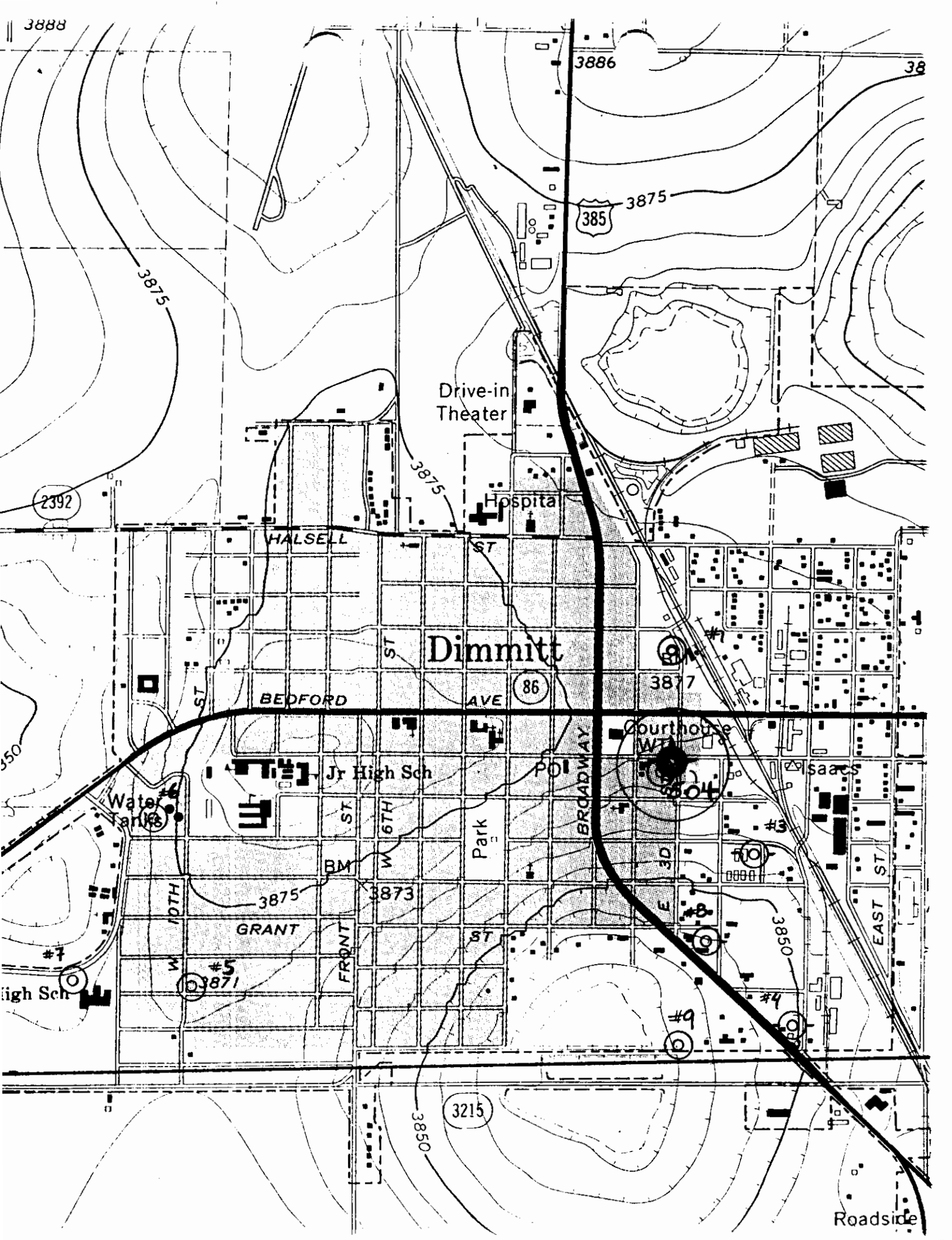
10-30-504  
[Parts per million] CASTRO COUNTY

Location Dimmitt, Texas Jones  
and 3rd street.  
Source Municipal well  
Point of Coll: pump, Disch:  
275 GM pump est., Appr: clear  
Pump at 220, Type: municipal  
Depth: 372' Cased to 372',  
Dia: 15", Drilled: 1945  
Depth to Water 160 below LSD  
Owner: city of Dimmitt, Texas  
WBF: 170 below LSD

Date of collection	6/20/55
Use public supply	
Temperature (°F)	64
Color	7.8
pH	
Suspended matter	
Hardness as CaCO <sub>3</sub>	
N. C.	0
Total	234
Ignition loss	
Dissolved solids	362
Specific conductance at 25°C	
(micromhos)	553
Aluminum (Al)	0.2 F
Fe (total)	0.02 NO <sub>3</sub>
Manganese (Mn)	0.00
Phosphate (PO <sub>4</sub> )	0.08um
	367

Chemist \_\_\_\_\_  
Lab. No. \_\_\_\_\_  
Collector \_\_\_\_\_

Denver 673  
D.R. Frazor





**Texas Water Development Board**  
**Well Schedule**



State Well Number: **10-30-507** Previous Well Number: **3163** County: **Castro** **69**

Latitude (dms): **343250** Longitude (dms): **1021826** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Brazos River** GMA: **2** RWPA: **O** GCD: **High Plains UWCD #1**

Owner: **City of Dimmitt** Driller: **Walco Drilling Co.** Aquifer ID: **Ogallala**  
**Well #3** Aquifer Code: **121OGLL**

Depth (ft): **410** Elevation (ft): **3861** **OGALLALA FORMATION**

Source of Depth: **Driller's Log** Source of Elevation: **Digital Elevation Model -DEM**

Date Drilled: **06/06/1970** Well Type: **Withdrawal of Water**  
Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:  
Construction: **Hydraulic Rotary** Completion: **Perforated or Slotted**  
Casing Material: **Steel** Screen Material: **Steel**

CASING INTERVALS:			
	Casing/Blank Pipe (C)		
	Well Screen/Slotted Zone (S)		
	Open Hole (O)		
	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	16	0	250
S	16	250	400
C	16	400	410

**WATER USE**

Primary: **Public Supply** Secondary: Tertiary:

Water Levels: **Miscellaneous Measurements** Water Quality: **N**  
**1 measurement**  
**1970** Other Data: Logs: **D**  
**-209**

**REMARKS:**

City well #3. Reported yield 440 GPM with 42 feet drawdown in 1970. Test hole drilled to 1170 feet by Water Industries but well tested with little or no yield in the Dockum. PWS ID #0350001C.

Reporting Agency: **TWDB or Predecessor Agency**

Date Collected or Reported: **08/16/1989**

Recorded by: D R Jones

## WELL SCHEDULE

TWDB-0409 (02-26-88)

Casing or Blank Pipe (C) Well Screen or Slotted Zone (S) Open Hole (O) Cemented from _____ to _____ Diam.                      Setting (feet) (in.)                      From                      To					
0	C 16		0	250	23
5	S 16	250	400		39
2	C 16	400	410		55
8					71
9					23
5					39
2					55
8					71
0					23
5					39
2					55
8					71
0					23
5					39
2					55
8					71



Send original copy by  
certified mail to the  
Texas Water Development Board  
P. O. Box 12386  
Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only  
Well No. 10-30-507  
Located on map  
Received: 7/2/70

1) OWNER:  
Person having well drilled City of Dimmitt Address Dimmitt, Texas  
(Name) (Street or RFD) (City) (State)  
Landowner Same Address                       
(Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:  
County Cochise 2 1/2 miles in                      direction from Dimmitt  
(N.E., S.W., etc.) (Town)

Locate by sketch map showing landmarks, roads, creeks,  
highway number, etc.\*

or Give legal location with distances and directions from  
adjacent sections or survey lines.

Labor                      League                     

Block M Survey                     

Abstract No.                     

(NW 1/4 NE 1/4 SW 1/4 SE 1/4) of Section 15

North  
↑

(Use reverse side if necessary)

3) TYPE OF WORK (Check):  
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging  
4) PROPOSED USE (Check):  
☐ Domestic ☐ Industrial ☒ Municipal ☐ Irrigation ☐ Test Well ☐ Other  
5) TYPE OF WELL (Check):  
☒ Rotary ☐ Driven ☐ Dug  
☐ Cable ☐ Jetted ☐ Bored

6) WELL LOG:  
Diameter of hole 26 in. Depth drilled 410 ft. Depth of completed well 410 ft. Date drilled 6/6/70  
All measurements made from                      ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0-	4	Top soil 405-410 Red bed
4-	56	Clay & caliche
56-	70	Sand
70-	110	Sand, sandrock
110-	150	Sand
150-	210	Sand, sandrock
210-	295	Sand
295-	350	Clay & sand
350-	360	Clay
360-	380	Sand & clay layers
380-	394	Red sand & clay
394-	405	Gravel & sand

(Use reverse side if necessary)

9) Casing:  
Type: Old New Steel Plastic Other  
Cemented from                      ft. to                      ft.

Diameter (inches) 16" Setting From (ft.) 250 To (ft.) 400 Slot Size 32 row 1/8"

10) SCREEN:  
Type                       
Perforated                      Slotted                       
Diameter (inches)                      Setting From (ft.)                      To (ft.)                      Slot Size                     

7) COMPLETION (Check):  
☒ Straight wall ☐ Gravel packed ☐ Other  
Under reamed ☐ Open Hole

11) WELL TESTS:  
Was a pump test made? Yes ☒ No ☐ If yes, by whom?

Yield:                      gpm with                      ft. drawdown after                      hrs.

Bailer test                      gpm with                      ft. drawdown after                      hrs.

Artesian flow                      gpm

Temperature of water                     

8) WATER LEVEL:  
Static level 209 ft. below land surface Date                       
Artesian pressure                      lbs. per square inch Date                       
Depth to pump bowls, cylinder, jet, etc.,                      ft.  
below land surface.

12) WATER QUALITY:  
Was a chemical analysis made? Yes ☐ No ☒  
Did any strata contain undesirable water? Yes ☐ No ☐  
Type of water?                      depth of strata                     

I hereby certify that this well was drilled by me (or under my supervision) and that  
each and all of the statements herein are true to the best of my knowledge and belief.

NAME Walco Drilling, Inc. Water Well Drillers Registration No. 247  
(Type or Print)  
ADDRESS 212 E. New York Hereford, Texas 79045  
(Street or RFD) (City) (State)  
(Signed) Billy F. Wall Walco Drilling, Inc.  
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

\*Additional instructions on reverse side.

TWDBE-CW-53

10-30-507

Duplicate File Copy

# High Plains Underground Water Conservation District No. 1 REGISTRATION and LOG of WELL

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for recommendation. (PLEASE TYPE OR PRINT)

## FOR USE OF COMMITTEEMEN

Field Well No. 3163  
Date 7-7-70  
Received 7-7-70  
Permit Size 6 Maximum  
of Pump 6 in Yield 560 GPM

1. Land Owner City of Denver Address 291 E. Franklin Ave.  
2. Well located \_\_\_\_\_ miles N \_\_\_\_\_ miles S \_\_\_\_\_ miles E \_\_\_\_\_ miles W of town of \_\_\_\_\_  
3. County Denver Labor \_\_\_\_\_ League \_\_\_\_\_ Abstract No. \_\_\_\_\_  
4. NWM ☐ NE ☐ SW ☐ SE Section 25 Block 14-10-17 Survey \_\_\_\_\_  
MARK OUT THOSE THAT DO NOT APPLY

## DRILLER'S LOG OF WELL

Method of Drilling: Rotary \_\_\_\_\_ Spudder \_\_\_\_\_ Diameter of Well: \_\_\_\_\_ inches.  
MARK OUT ONE THAT DOES NOT APPLY

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top Soil	360	380	Sand & Clay Layer
4	56	Clay & Caliche	380	394	Red Sand & Clay
56	70	Sand	394	405	Gravel & Sand
70	110	Sand & (ly track)	405	410	Red Bed
110	150	Sand			
150	210	Sand & some sandstone			
210	295	Sand			
295	320	Clay & sand			
320	350	Sand - some clay			
350	360	Clay			

RECEIVED JUL 31 1970

-REMARKS:

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Walco Drilling Co Address 221 - Harvard St. Date Drilled 6-15 19 70

## DESCRIPTION OF WELL AND PRODUCTION EQUIPMENT

(This Does Not Mean Testing or Development Pump)

6. Casing: new, used, gas line, or shop made. Diameter 16" in Total casing length 400 ft.  
7. Casing perforations: from 250 ft. to 400 ft. Size 3/8" Number of rows 22  
8. Pump Column: Size 6 in. Column, shaft length 370 ft. Suction pipe size 6 in. Suction pipe length 10 ft.  
9. Pump bowls: Size 11 1/4" Number of stages 5 Pump discharge pipe: Size 6 in.  
10. Depth to water level 209 ft. Pump yield 440 GPM. Pumping level: 251 ft.  
11. Power Unit: Electrical, Natural Gas, Butane, Other \_\_\_\_\_ Horsepower 50

Signature Billy F. Wall LANDOWNER OR AGENT TITLE Owner ADDRESS \_\_\_\_\_

Billy F. Wall # 247  
R. Paul Cameron # 57

BU 53 received Sept. 14, 1970

☒ 100 ☒ 123 ☒ NEW APP. BOOK ☒ ABC FILE ☒ X FILE ☒ MASTER SHEET ☒ WELLS COMPLETED BOOK ☐ PINNED ☐ DEPTH PLOTTED

FORM NO. 465 AWP

Original--District Office Copy

FOR USE OF DISTRICT OFFICE ONLY

# High Plains Underground Water Conservation District No. 1

## Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for recommendation. (PLEASE TYPE OR PRINT)

3163

Field Well No. 3157

Time of Filing 10:10 A.M.

Date Application Filed 4-24-70

Expiration Date 5-24-70

Date Recommended By 4-25-70

County Committee

Size of Pump 6" Maximum Yield 1500 GPM

I, CITY OF DENVER 201 EAST JONES DENVER, CO

NAME OF LANDOWNER LANDOWNER'S ADDRESS

hereby make application to HIGH PLAINS UNDERGROUND WATER CONSERVATION DISTRICT NO. 1 for a permit to drill the hereinafter described water well at the location indicated:

County COSTA Proposed Use (Municipal-Industrial-Irrigation)

NW¼, NE¼, SW¼, SE¼ Section 25 Block 11-10-1 Drilling to start about 1.00.00, 1970

MARK OUT ONES THAT DO NOT APPLY

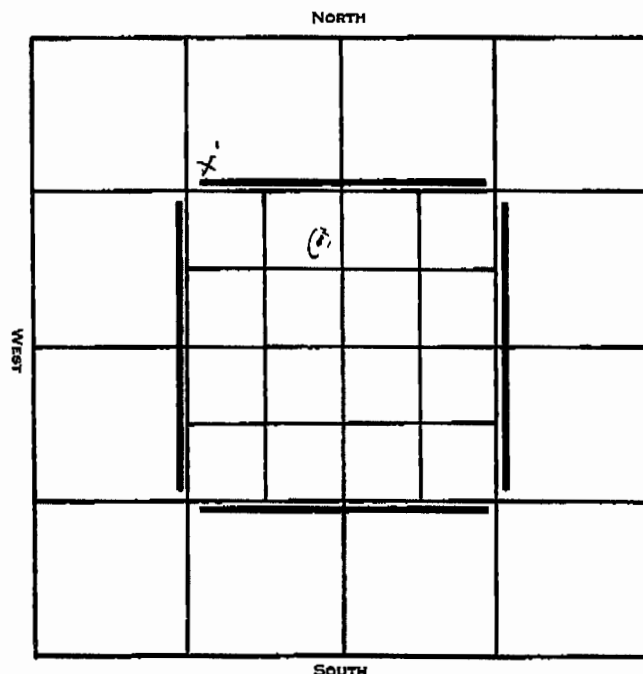
Survey Abstract This well will be located {        miles N or S and        miles E or W of the

Township        Range        town of DENVER, CO

Labor        League       

MARK DOT INSIDE CIRCLE ● within RED SQUARE for proposed well location. (Red square indicates 1 quarter section or 1 labor)

MARK X, showing 3 closest well or authorized well sites within ¼ mile.



Location of proposed Well as submitted by applicant

cant is 720 measured yards from (N-S)   

and 480 measured yards from (E-W)   

MARK OUT ONE THAT DOES NOT APPLY

property line, quarter section line, or labor line.

Number three adjacent wells, or authorized well sites within ¼ mile on the plat as 1, 2, and 3, to correspond with the following:

No. 1 320 measured yards from proposed well site.

Owned by       

Address       

No. 2        measured yards from proposed well site.

Owned by       

Address       

No. 3        measured yards from proposed well site.

Owned by       

Address       

RECEIVED MAY 8 1970

COMMENT

1 1/10 ins. 440 yds. Minimum for 10-in. well... yield—more than 1000 G.P.M.

1 in. 400 yds. Minimum for 8-in. well... yield—560 to 1000 G.P.M.

3/4 in. 300 yds. Minimum for 6-in. well... yield—390 to 560 G.P.M.

5/8 in. 250 yds. Minimum for 5-in. well... yield—265 to 390 G.P.M.

1/2 in. 200 yds. Minimum for 3 or 4-in. well... yield—70 to 265 G.P.M.

I agree that this well will be drilled within ten (10) yards of the location specified and not closer to an existing well or authorized well site than the minimum spacing requirements, and that I will furnish my County Committee the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: E. J. T. 66 C. J. T. 66 201 E. JONES DENVER

This permit recommended by County Committee, subject to the rules for spacing from existing wells and/or authorized well site.

1 John Maxwell 2 John Mulheath 3 John Witham

☒ Pinned on County Map ☒ Deposit Received ☐ Refunded

SMITH PRINTING CO. - DALLAS PD 3-8813

Check No.       

10-30-507

updat

WQ FY 2024

## TWDB Water Quality Field Data Sheet

Newly Invented Well ☒SWN: 10-30-507County: CastroAquifer Code: 1210GLLAquifer: OgallalaName: City of DimmitAddress: PO Box 176Dimmit, TX 79027

Attention: \_\_\_\_\_

Well Name or #: Fawn #3

①	②	③	4	5	6	7	8	9	10	11
250 ml filtered	500 ml filtered	250 ml filtered	1 Liter filtered	40 mL unfiltered			250 ml unfiltered	1 L unfiltered	1 L unfiltered	
Cation	Anions/T. Alk.	Nitrate	Gross Alpha	Ammonia			Sr-87/Sr-86	Tritium	C14/C13 corr	
RED		YELLOW	S-RE900-A						O-18 & H2	
HNO <sub>3</sub>	ICE	ICE + H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub> by lab	ICE			None	None	None	
6 months	28 days & Alk 14 days	28 days	6 months	8 weeks			6 months	6 months	1 year	Holding Times
TWDB standard suite					Isotopes suite					

Time In: 11:05Time Out: 11:40Water Level (LSD): —M.P. (Feet) = —W.L. remark: —Pumping time: 11:05Sampling Point: 2-15AWWell Use: PFIELD GPS readings Accuracy (ft ±): -10Lift: SubLatitude: 25.547222Power: ElecLongitude: 102.307223Casing Type: SteelCasing Size: 6"Sample Time: 11:16Filter pressure: hand pump / line / spring sampler

Calibration Verification Readings	
meter: Orion Star A Series	
pH	SLOPE = <u>98.8</u> %
	(First) 7 = <u>7.02</u>
	4 = <u>4.01</u>
	10 = <u>10.06</u>
Conductivity	500 = <u>500</u>
	1000 = <u>1000</u>
	First 1413 = <u>1413</u>
probe: Orion	2000 = <u>2000</u>
013010MD	

Field Alkalinity Titration	
<u>7.76</u>	Start pH
<u>4.57</u>	End pH
<u>50</u>	mL Sample Size
<u>—</u>	mL Acid Phenol (> 8.3)
<u>12.3</u>	mL Acid Total (to pH 4.5)
mL acid added x 20 = Alkalinity	

Phenol Alkalinity (82244): — mg/LTotal Alkalinity (39086): 246 mg/L

Water Quality Stabilization Parameters Table (At least 3 readings @ 5 min. intervals)

Time	11:06	11:11	11:16				
pH (± 0.1)	<u>7.63</u>	<u>7.58</u>	<u>7.60</u>				
Temp (° C) (± 3%)	<u>17.9</u>	<u>17.7</u>	<u>17.7</u>				
Conductivity (µS/cm) (3%)	<u>902.6</u>	<u>835</u>	<u>837.7</u>				

Notes: \_\_\_\_\_

(00400)

(00010)

(00094)

## Analytical Results

<b>Client ID:</b> TWDB	<b>Date Collected:</b> 06/11/2024 11:16	<b>Matrix:</b> Aqueous
<b>Lab ID:</b> Q2425824004	<b>Date Received:</b> 06/14/2024 15:32	<b>Sample Type:</b> SAMPLE
<b>Sample ID:</b> 1030507	<b>Location:</b>	
<b>Project ID:</b> TWDB CAN	<b>Facility:</b>	
	<b>Sample Point:</b>	

### ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Phenolphthalein Alkalinity	0.00	mg/L	0.00	0.00		1	06/18/2024 14:46	TLC	06/18/2024 14:46	TLC	N
Hydroxide Alkalinity	0.00	mg/L	0.00	0.00		1	06/18/2024 14:46	TLC	06/18/2024 14:46	TLC	N
Bicarbonate Alkalinity	230	mg/L	0.00	0.00		1	06/18/2024 14:46	TLC	06/18/2024 14:46	TLC	N
Carbonate Alkalinity	0.00	mg/L	0.00	0.00		1	06/18/2024 14:46	TLC	06/18/2024 14:46	TLC	N
Total Alkalinity (CaCO <sub>3</sub> )	230	mg/L	20.0	20.0		1	06/18/2024 14:46	TLC	06/18/2024 14:46	TLC	

### HEAVY METALS (245.1Hg)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Mercury Dissolved	<0.20	ug/L	0.20	0.070		1	06/25/2024 18:30	FM	06/25/2024 18:30	FM	N

### INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Boron Dissolved	167	ug/L	50.0	20.0		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	
Calcium Dissolved	40.6	mg/L	0.200	0.0700		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	
Strontium Dissolved	1060	ug/L	10.0	4.00		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	
Iron Dissolved	<50.0	ug/L	50.0	20.0		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	
Magnesium Dissolved	32.8	mg/L	0.200	0.0700		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	
Potassium Dissolved	7.47	mg/L	0.200	0.0700		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	
Sodium Dissolved	54.5	mg/L	0.200	0.0700		1	06/20/2024 09:51	ML	06/25/2024 15:05	FM	

## Analytical Results

<b>Client ID:</b> TWDB	<b>Date Collected:</b> 06/11/2024 11:16	<b>Matrix:</b> Aqueous
<b>Lab ID:</b> Q2425824004	<b>Date Received:</b> 06/14/2024 15:32	<b>Sample Type:</b> SAMPLE
<b>Sample ID:</b> 1030507	<b>Location:</b>	
<b>Project ID:</b> TWDB CAN	<b>Facility:</b>	
	<b>Sample Point:</b>	

### INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Aluminum Dissolved	<5.00	ug/L	5.00	1.50		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Antimony Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Arsenic Dissolved	2.78	ug/L	1.00	0.700		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Barium Dissolved	98.3	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Beryllium Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Cadmium Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Chromium Dissolved	1.66	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Cobalt Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Copper Dissolved	1.39	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Lithium Dissolved	134	ug/L	2.00	0.700		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	N
Lead Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Manganese Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Molybdenum Dissolved	1.31	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Selenium Dissolved	<5.00	ug/L	5.00	1.50		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Silver Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Thallium Dissolved	<1.00	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Uranium Dissolved	8.41	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	N
Vanadium Dissolved	18.4	ug/L	1.00	0.400		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	
Zinc Dissolved	<5.00	ug/L	5.00	1.50		1	06/20/2024 09:50	ML	07/11/2024 11:49	FM	

### INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Chloride Dissolved	75.3	mg/L	1.00	0.400		1	06/18/2024 12:33	MAB	06/18/2024 12:33	MAB	
Bromide Dissolved	0.131	mg/L	0.0200	0.00800		1	06/18/2024 12:33	MAB	06/18/2024 12:33	MAB	
Fluoride Dissolved	2.60	mg/L	0.0100	0.00400		1	06/18/2024 12:33	MAB	06/18/2024 12:33	MAB	
Sulfate Dissolved	33.0	mg/L	1.00	0.400		1	06/18/2024 12:33	MAB	06/18/2024 12:33	MAB	

### INORGANICS (SM1030B Cation/Anion Balance)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Cation/Anion Balance	-3.150	%				1	07/12/2024 12:39	CW	07/12/2024 12:39	CW	

### NITRATE AND NITRITE (SM4500-NO3-H, Nitrate/Nitrite)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Nitrate/Nitrite as N Dissolved	3.42	mg/L	0.100	0.0400		5	06/18/2024 00:00	MAB	06/18/2024 00:00	MAB	

## Analytical Results

<b>Client ID:</b> TWDB	<b>Date Collected:</b> 06/11/2024 11:16	<b>Matrix:</b> Aqueous
<b>Lab ID:</b> Q2425824004	<b>Date Received:</b> 06/14/2024 15:32	<b>Sample Type:</b> SAMPLE
<b>Sample ID:</b> 1030507	<b>Location:</b>	
<b>Project ID:</b> TWDB CAN	<b>Facility:</b>	
	<b>Sample Point:</b>	

### SILICA (SM4500-SiO<sub>2</sub>-C, Silica)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Silica as SiO <sub>2</sub> , Dissolved	63.7	mg/L	2.50	1.00		5	06/17/2024 00:00	MAB	06/17/2024 00:00	MAB	

### TOTAL PHOSPHATE AS P (E365.4 / E351.2 Water Prep/E365.4 Phosphorus, Total)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Phosphorus, Dissolved (As P)	0.0217	mg/L	0.0200	0.00800		1	06/25/2024 19:21	TVT	06/26/2024 00:00	MAB	

## STATE OF TEXAS WELL REPORT for Tracking #13422

Owner: **Texas Dept. of Transportation**

Owner Well #: **DW-B2**

Address: **125 E. 11th Street  
Austin, TX 78701**

Grid #: **10-30-5**

Well Location: **905 E. Bedford  
Dimmit, TX**

Latitude: **34° 33' 06" N**

Longitude: **102° 18' 07" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/15/2002** Drilling End Date: **10/15/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>5</b>	<b>0</b>	<b>70</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>1</b>
	<b>2</b>	<b>70</b>	<b>8</b>

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**



---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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

---

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: **T&T Drilling**  
**P.O. Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder** License Number: **1862**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>3</b>	<b>Brown Top Soil</b>
<b>3</b>	<b>70</b>	<b>Brown Sandy Clay &amp; Brown Sand</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>No Data</b>			

---

#### 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 #13425

Owner: **Texas Dept. of Transportation**

Owner Well #: **SBG-1**

Address: **125 E. 11th Street  
Austin, TX 78701**

Grid #: **10-30-5**

Well Location: **905 E. Bedford  
Dimmit, TX**

Latitude: **34° 33' 06" N**

Longitude: **102° 18' 04" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **10/16/2002** Drilling End Date: **10/16/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>5</b>	<b>0</b>	<b>6</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	
	<b>2</b>	<b>6</b>	

Seal Method: **Slurry**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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

---

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: **T&T Drilling**  
**P.O. Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder** License Number: **1862**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>3</b>	<b>Brown Top Soil</b>
<b>3</b>	<b>6</b>	<b>Brown Sandy Clay &amp; Brown Sand</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>No Data</b>			

---

#### 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 #7841

Owner:	Texas Department of Transportation	Owner Well #:	Test Boring 2
Address:	125 E. 11th Street Austin, TX 78701	Grid #:	10-30-5
Well Location:	905 E. Bedford Dimmitt, TX	Latitude:	34° 33' 04" N
Well County:	Castro	Longitude:	102° 18' 06" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Environmental Soil Boring

Drilling Start Date: **5/22/2002**      Drilling End Date: **5/22/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	20

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	20	

Seal Method: **(Slurry)**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Unknown**

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: **T & T Drilling**  
**P. O. Box 64958**  
**Lubbock, TX 79464**

Driller Name: **Tucker D. Rudder**

License Number: **1862**

Apprentice Name: **Gilbert Brown**

Apprentice Number: **1325**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>4</b>	<b>Brown Top Soil</b>
<b>4</b>	<b>20</b>	<b>Brown Clay and Sandy Clay</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>No Data</b>			

---

#### 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 #313234

Owner: **Justin Wethington**  
Address: **PO box 136  
Nazareth, TX 79063**  
Well Location: **2444 HWY 86  
Nazareth, TX 79603**  
Well County: **Castro**

Owner Well #: **1**  
Grid #: **10-30-5**  
Latitude: **34° 33' 07" N**  
Longitude: **102° 17' 47" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/2/2013**

Drilling End Date: **2/2/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9.875</b>	<b>0</b>	<b>336</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>115</b>	<b>336</b>	<b>Gravel</b>	<b>1/4"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>2</b>	<b>115</b>	<b>1.5 yards</b>

Seal Method: **Cement**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **600**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which  
contained injurious constituents?: **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: **Rodgers Well Service**  
**3012 Dimmitt RD**  
**Plainview, TX 79072**

Driller Name: **Chad Brunson** License Number: **58174**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	12	top soil caliche
12	26	sandy brown clay,sand,sand rock
26	103	sand fine sand rock
103	215	med.coarse sand sand rock
215	229	fine river sand,sand rock fine gravel
229	325	coarse san and gravel
325	336	red bed

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
+2-3	5"	1/4 wall steel	
3-316	5"	200psi pvc	
316-336	5"	.035 pvc perf	

**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**

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Ogallala

Field No. 4005

State Well No. 10-30-514  
605

Owner's Well No. \_\_\_\_\_

County CASTRO  
5 B3-F DD

1. Location: NW 1/4, NW 1/4 Sec. 7, Block M Survey \_\_\_\_\_

2. Owner: Vernice K Green Address: Box 664 Dimmitt

Tenant: \_\_\_\_\_ Address: \_\_\_\_\_

Driller: A.W. Fish Address: Plainview TX

3. Elevation of \_\_\_\_\_ is 3860 ft. above msl, determined by \_\_\_\_\_

4. Drilled: 5-20 1976; Dug, Cable Tool, Rotary, \_\_\_\_\_

5. Depth: Rept. 398 ft. Meas. \_\_\_\_\_ ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed \_\_\_\_\_

7. Pump: Mfg. \_\_\_\_\_ Type \_\_\_\_\_

No. Stages \_\_\_\_\_, Bows Diam. \_\_\_\_\_ in., Setting \_\_\_\_\_ ft.

Column Diam. \_\_\_\_\_ in., Length Tailpipe \_\_\_\_\_ ft.

8. Motor: Fuel \_\_\_\_\_ Make & Model \_\_\_\_\_ HP.

9. Yield: Flow \_\_\_\_\_ gpm, Pump \_\_\_\_\_ gpm, Meas., Rept., Est. \_\_\_\_\_

10. Performance Test: Date \_\_\_\_\_ Length of Test \_\_\_\_\_ Made by \_\_\_\_\_

Static Level \_\_\_\_\_ ft. Pumping Level \_\_\_\_\_ ft. Drawdown \_\_\_\_\_ ft.

Production \_\_\_\_\_ gpm Specific Capacity \_\_\_\_\_ gpm/ft.

11. Water Level: \_\_\_\_\_ ft. rept. \_\_\_\_\_ 19 \_\_\_\_\_ above \_\_\_\_\_ which is \_\_\_\_\_ ft. above surface.  
\_\_\_\_\_ ft. rept. \_\_\_\_\_ 19 \_\_\_\_\_ below \_\_\_\_\_ which is \_\_\_\_\_ ft. above surface.  
\_\_\_\_\_ ft. rept. \_\_\_\_\_ 19 \_\_\_\_\_ below \_\_\_\_\_ which is \_\_\_\_\_ ft. above surface.  
\_\_\_\_\_ ft. rept. \_\_\_\_\_ 19 \_\_\_\_\_ below \_\_\_\_\_ which is \_\_\_\_\_ ft. above surface.

12. Use: Dom., Stock, Public Supply, Ind. Irr, Waterflooding, Observation, Not Used, \_\_\_\_\_

13. Quality: (Remarks on taste, odor, color, etc.) \_\_\_\_\_

Temp. \_\_\_\_\_ °F, Date sampled for analysis \_\_\_\_\_ Laboratory \_\_\_\_\_

Temp. \_\_\_\_\_ °F, Date sampled for analysis \_\_\_\_\_ Laboratory \_\_\_\_\_

Temp. \_\_\_\_\_ °F, Date sampled for analysis \_\_\_\_\_ Laboratory \_\_\_\_\_

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, \_\_\_\_\_

Formation Samples, Pumping Test, \_\_\_\_\_

15. Record by: B. BATES Date 8-15 1978

Source of Data Field & HPUWCD #1 Records

16. Remarks: \_\_\_\_\_

CASING & BLANK PIPE			
Cemented From		ft. to	
Diam. (in.)	Type	Setting, ft.	
		from	to
16	STEEL	Surf	398

WELL SCREEN			
Screen Openings			
Diam. (in.)	Type	Setting, ft.	
		from	to
16	Perforated	238	398

Casing Perforated with 1/2" slots  
41 per row

RECEIVED  
NOV 6 1978

Central Records  
Texas Dept. of Water Resources





Send original copy by  
registered mail to the  
Texas Water Development Board  
P. O. Box 13087  
Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only  
Well No. 10-30-6P  
Located on map yes  
Received: 76  
dlr

OWNER:  
Person having well drilled Wm. L. Green Address Box 664, Dimeville, Texas  
(Name) (Street or RFD) (City) (State)

Landowner \_\_\_\_\_ Address \_\_\_\_\_  
(Name) (Street or RFD) (City) (State)

LOCATION OF WELL:  
County Castro \_\_\_\_\_ miles in E direction from Dimeville  
(N.E., S.W., etc.) (Town)

Locate by sketch map showing landmarks, roads, creeks,  
highway number, etc.\*

North  
↑

(Use reverse side if necessary)

Give legal location with distances and directions from  
adjacent sections or survey lines.

Labor \_\_\_\_\_ League \_\_\_\_\_

Block M Survey \_\_\_\_\_

Abstract No. 161-5 acres  
(NW 1/4, NE 1/4, SW 1/4, SE 1/4) of Section 7

TYPE OF WORK (Check): New Well <input checked="" type="checkbox"/> Deepening Reconditioning Plugging	4) PROPOSED USE (Check): Domestic Industrial Municipal Irrigation <input checked="" type="checkbox"/> Test Well Other	5) TYPE OF WELL (Check): Rotary <input checked="" type="checkbox"/> Driven Dug Cable Jetted Bored
--	---	---

WELL LOG:  
Diameter of hole 12 in. Depth drilled 398 ft. Depth of completed well 398 ft. Date drilled 5-20-76  
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material	9) Casing: Type: Old New <input checked="" type="checkbox"/> Steel Plastic Other Cemented from _____ ft. to _____ ft.
3	Surface	261-287 Sand	
12	Center	287-298 Sandstone	Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Gage _____
35	Clay	298-316 Sand	16 0 398
5-38	Rock	316-322 Sand Rock	
7-76	Clay	322-341 Clay	
105	Sandy Clay	341-362 Sand	10) SCREEN: Type _____ Perforated <input checked="" type="checkbox"/> Slotted
5-127	Sand	362-380 Gravel	
7-162	Clay	380-394 Clay	Diameter (inches) _____ Setting From (ft.) _____ To (ft.) _____ Slot Size _____
2-173	Sandstone	394-398 full Bed	230 392 1/2"
73-246	Sand		
46-261	Center		

(Use reverse side if necessary)

COMPLETION (Check): Straight wall <input checked="" type="checkbox"/> Gravel packed Other Under reamed Open Hole	11) WELL TESTS: Was a pump test made? Yes No If yes, by whom? Yield: _____ gpm with _____ ft. drawdown after _____ hrs. Bailer test _____ gpm with _____ ft. drawdown after _____ hrs. Artesian flow _____ gpm Temperature of water _____
WATER LEVEL: Static level _____ ft. below land surface Date _____ Artesian pressure _____ lbs. per square inch Date _____ Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.	12) WATER QUALITY: Was a chemical analysis made? Yes No Did any strata contain undesirable water? Yes No Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that  
each and all of the statements herein are true to the best of my knowledge and belief.

NAME A. W. Fish Water Well Drillers Registration No. 1307  
(Type or Print)  
ADDRESS 309 E 7th Dimeville, Texas  
(Street or RFD) (City) (State)  
Signed A. W. Fish A. W. Fish  
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

Additional instructions on reverse side.

WAL-DISTRICT OFFICE COPY

# High Plains Underground Water Conservation District No. 1 REGISTRATION and LOG of WELL

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for recommendation. (PLEASE TYPE OR PRINT)

FOR USE OF COMMITTEEMEN

Field Well No. 4005  
Date Received 7-27-76  
Permit Size 6 Maximum 560  
of Pump 6 in Yield 560 GPM

1. Land Owner Vernice K. Green Address Box 664, Demmitt  
2. Well located \_\_\_\_\_ miles N. \_\_\_\_\_ miles S. 1 miles E. \_\_\_\_\_ miles W of the town of Demmitt  
3. County Castro Labor \_\_\_\_\_ League \_\_\_\_\_ Abstract No. \_\_\_\_\_  
161.5 acres  
4. ~~NW~~ ~~NE~~ ~~SW~~ ~~SE~~ Section 7 Block M Survey \_\_\_\_\_  
MARK OUT THOSE THAT DO NOT APPLY

## DRILLER'S LOG OF WELL

Method of Drilling: Rotary ☒ Spudder \_\_\_\_\_ Diameter of Well: 18" inches.  
MARK OUT ONE THAT DOES NOT APPLY

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Surface	246	261	Caliche
3	12	Caliche	261	287	Sand
12	35	Clay	287	298	Sandstone
35	38	Rock	298	316	Sand
38	76	Clay	316	322	Sandrock
76	105	Sandy clay	322	341	Clay
105	127	Sand	341	360	Sand
127	162	Clay	360	380	Gravel
162	173	Sandstone	380	394	Clay
173	246	Sand	394	398	Red Bed

REMARKS:

RECEIVED JUL 29 1976

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller A. W. Fish - Plainview, Texas Address \_\_\_\_\_ Date Drilled 5-20-76 19 \_\_\_\_\_

## DESCRIPTION OF WELL AND PRODUCTION EQUIPMENT

(This Does Not Mean Testing or Development Pump)

6. Casing: new, ~~used~~, ~~gas line~~, or ~~shop made~~. Diameter 16" in. Total casing length 398' ft.  
7. Casing perforations: from 238' ft. to 398' ft. Size 1/2" Number of rows 4  
8. Pump Column: Size 6" in. Column, shaft length 360' ft. Suction pipe size 6" in. Suction pipe length 10' ft.  
9. Pump bowls: Size 10" Number of stages 8 Pump discharge pipe: Size 6" in.  
10. Depth to water level 235' ft. Pump yield 560 GPM. Pumping level: 290' ft.  
11. Power Unit: Electrical, ~~Natural Gas~~, ~~Butane~~, Other \_\_\_\_\_ Horsepower \_\_\_\_\_

Signature Vernice Green LANDOWNER OR AGENT TITLE owner ADDRESS Box 664 Demmitt Texas  
By J. E. Green

DD10-30-605  
514

Typewrite (Black ribbon) or Print Plainly  
(soft pencil or black ink)  
Do not use ball point pen

Texas Department of Health Laboratories  
1100 West 49th Street  
Austin, Texas 78756

TDWR ONLY			
Program No. _____	Lab No. <table border="1"><tr><td></td><td></td></tr></table>		
Work No. _____			

### CHEMICAL WATER ANALYSIS REPORT

Send report to:

Ground Water Division  
Texas Department of Water Resources  
P.O. Box 13087  
Austin, Texas 78711

County 

035
-----

CASTRO  
State Well No. 

10	30	14
----	----	----

  
3-B3-1-DD Well No. 4005  
Date Collected 

08	15	78
----	----	----

Location NW 1/4, NW 1/4, Laborer, BIK m Sample No. 

--

 By HPUCD<sup>th</sup> BBAES  
Source (type of well) \_\_\_\_\_ Owner Vernice K. Green Box 664, Dimm. #1  
Date Drilled 5-20-76 Depth 378 ft. WBF 09111111

--	--	--

 ft.  
Producing intervals \_\_\_\_\_ Water level \_\_\_\_\_ ft. Sample depth 

--	--	--

 ft.  
Sampled after pumping CONT hrs. Yield \_\_\_\_\_ GPM meas. Temperature 

--	--	--

 °F 

--	--	--

 °C  
Point of collection gated pipe in field Appearance ☒ clear ☐ turbid ☐ colored ☐ other  
Use irrigation Remarks \_\_\_\_\_

(FOR LABORATORY USE ONLY)

### CHEMICAL ANALYSIS

SEP 29 78

Laboratory No. 348759 Date Received AUG 28 1978 Date Reported \_\_\_\_\_

	MG/L				ME/L	
Silica . . . . .				66		
Calcium . . . . .				39		
Magnesium . . . . .				29		
Sodium . . . . .				49		
	Total					
<input type="checkbox"/> Potassium . . . . .						
<input type="checkbox"/> Manganese . . . . .						
<input type="checkbox"/> Boron . . . . .						
<input checked="" type="checkbox"/> Total Iron . . . . .						
<input type="checkbox"/> (other) _____	MG/L					

Specific Conductance (micromhos/cm<sup>3</sup>) 

			570
--	--	--	-----

  
Diluted Conductance (micromhos/cm<sup>3</sup>) 5 x 135  
675

☐ " items will be analyzed if checked.

<sup>1</sup> The bicarbonate reported in this analysis is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure is used in the computation of this sum.

<sup>2</sup> Nitrogen cycle requires separate sample.

<sup>3</sup> Total Iron requires separate sample.

	MG/L				ME/L			
Carbonate . . . . .				2			0	08
Bicarbonate . . . . .			312				5	12
Sulfate . . . . .			34				0	70
Chloride . . . . .			20				0	55
Fluoride . . . . .			3.0				0	16
Nitrate . . . . .			5.9					
pH . . . . .			8.4		Total		6	61
Dissolved Solids (sum in MG/L) . . . . .							396	
Phenolphthalein Alkalinity as CaCO <sub>3</sub> (0.04) . . . . .								2
Total Alkalinity as CaCO <sub>3</sub> (5.20) . . . . .							260	
Total Hardness as CaCO <sub>3</sub> (4.36) . . . . .							218	
2/ Nitrogen Cycle								
Ammonia - N . . . . .								
Nitrite - N . . . . .								
Nitrate - N . . . . .								
Organic Nitrogen . . . . .								

Analyst \_\_\_\_\_ Checked By \_\_\_\_\_

## STATE OF TEXAS WELL REPORT for Tracking #646929

Owner: **Florez Ditching**

Owner Well #: **1**

Address: **1465 East Hwy 86  
Dimmitt, TX 79063**

Grid #: **10-30-6**

Well Location: **1465 East Hwy 86  
Dimmitt, TX 79063**

Latitude: **34° 33' 17" N**

Longitude: **102° 17' 28" W**

Well County: **Castro**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Stock**

Drilling Start Date: **7/7/2023**

Drilling End Date: **7/11/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12</b>	<b>0</b>	<b>379</b>

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Perforated or Slotted**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 10 Bags/Sacks</b>

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **230**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **1000+**

Distance to Septic Tank (ft.): **1000+**

Method of Verification: **Phasing**

Surface Completion: **Steel Cased**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

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: **Wieler's Well Solutions**  
**242 CR 400-L**  
**Seminole, TX 79360**

Driller Name: **Benny Wieler**

License Number: **60878**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>Top Soil</b>
<b>2</b>	<b>8</b>	<b>Caliche</b>
<b>8</b>	<b>38</b>	<b>Red Clay</b>
<b>38</b>	<b>218</b>	<b>Sand</b>
<b>218</b>	<b>240</b>	<b>Brown Clay</b>
<b>240</b>	<b>276</b>	<b>Sand</b>
<b>276</b>	<b>285</b>	<b>Red Clay</b>
<b>285</b>	<b>297</b>	<b>Sand</b>
<b>297</b>	<b>310</b>	<b>Rock</b>
<b>310</b>	<b>355</b>	<b>Red Sandclay</b>
<b>355</b>	<b>360</b>	<b>White Sand Clay</b>
<b>360</b>	<b>367</b>	<b>Sand</b>
<b>367</b>	<b>375</b>	<b>Brown Sandclay</b>
<b>375</b>	<b>379</b>	<b>Red Bed</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>8</b>	<b>Blank</b>	<b>Used Steel</b>	<b>250</b>	<b>0</b>	<b>304</b>
<b>8</b>	<b>Perforated or Slotted</b>	<b>Used Steel</b>	<b>250 0</b>	<b>304</b>	<b>379</b>

---

**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**

## WELL SCHEDULE

~~Field No.~~ Owner's Well No. 3063

County Castro

2. Owner: Amstar Corp. Address: Dimmitt, Texas 79027

Tenant (other): \_\_\_\_\_ Address: \_\_\_\_\_

Driller: Paul Garrison Address: 1005 Austin, Dimmitt, Texas

3. Land Surface Elevation: 3836 ft. above msl determined by Interpretation of USGS Topographic map

4. Drilled: 2-22 1969; Dug, Cable Tool, Rotary, Air, \_\_\_\_\_

5. Depth: Rept. 370 ft. Meas. \_\_\_\_\_ ft.

6. Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfr. \_\_\_\_\_ Type Turbine

No. Stages 7, Bowls Diam. 10 in., Setting 340 ft.

Column Diam. 6 in., Length Tailpipe 10 ft.

8. Motor: Mfr. \_\_\_\_\_ Fuel \_\_\_\_\_ HP. \_\_\_\_\_

9. Yield: Flow \_\_\_\_\_ gpm, Pump 560 gpm, Meas., Rept., Est. \_\_\_\_\_ Date 7-22-69

10. Performance Test:    Date \_\_\_\_\_    Length of Test \_\_\_\_\_    Made by \_\_\_\_\_

Static Level	ft.	Pumping Level	ft.	Drawdown	ft.
--------------	-----	---------------	-----	----------	-----

Production	gpm	Specific Capacity	gpm/ft.
------------	-----	-------------------	---------

11. Quality: (Remarks on taste, odor, color, etc.) \_\_\_\_\_

## Analyses

Date \_\_\_\_\_ Laboratory \_\_\_\_\_ TDS \_\_\_\_\_ Sp Cond \_\_\_\_\_

Date	Laboratory	TDS	Sp Cond
------	------------	-----	---------

12. Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log,

Formation Samples, Geophysical Log(s) \_\_\_\_\_

(type)

13. Water Level(s): \_\_\_\_\_ ft. <sup>rept.</sup> <sub>meas.</sub> \_\_\_\_\_ 19 \_\_\_\_\_ <sup>above</sup> <sub>below</sub> \_\_\_\_\_ which is \_\_\_\_\_ ft. <sup>above</sup> <sub>below</sub> Land Surface

\_\_\_\_\_ ft. <sup>rept.</sup> <sub>meas.</sub> \_\_\_\_\_ 19 \_\_\_\_\_ <sup>above</sup> <sub>below</sub> \_\_\_\_\_ which is \_\_\_\_\_ ft. <sup>above</sup> <sub>below</sub> Land Surface

14. Use: Dom., Stock, Public Supply, Ind., Irr., Observation, Other (Test Hole, Oil Test, etc.)

15. Recorded by: DAN SEALE Source of data: HPWCD #1 Records Date: 8-3-81

16. Remarks:

17. Location or Sketch:

CASING, BLANK PIPE & WELL SCREEN			
Cemented From _____ ft. to _____ ft.			
Diam. (in.)	Type	Setting (feet)	
		from	to
16	NEW	surface	370
CASING Perforated with			
1/4"	slots	195	370
RECEIVED			
AUG 20 1981			
CK/TDWR			

**TDWR-0308**

W/L Obs. Well      W/Q Obs. Well ✓  
State Well No. 10 - 30 - 606



Duplicate---File Copy

High Plains Underground Water Conservation District No. 1

REGISTRATION and LOG of WELL

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for recommendation. (PLEASE TYPE OR PRINT)

FOR USE OF COMMITTEEMEN

Field Well No. \_\_\_\_\_  
Date \_\_\_\_\_  
Received \_\_\_\_\_  
Permit Size \_\_\_\_\_ Maximum \_\_\_\_\_  
of Pump \_\_\_\_\_ in Yield \_\_\_\_\_ GPM

1. Land Owner \_\_\_\_\_ Address \_\_\_\_\_  
2. Well located \_\_\_\_\_ miles N, \_\_\_\_\_ miles S, \_\_\_\_\_ miles E, \_\_\_\_\_ miles W of town of \_\_\_\_\_  
3. County \_\_\_\_\_ Labor \_\_\_\_\_ League \_\_\_\_\_ Abstract No. \_\_\_\_\_  
4. NW¼ NE¼ SW¼ SE¼ Section \_\_\_\_\_ Block \_\_\_\_\_ Survey \_\_\_\_\_

MARK OUT THOSE THAT DO NOT APPLY

DRILLER'S LOG OF WELL

Method of Drilling: Rotary \_\_\_\_\_ Spudder \_\_\_\_\_ Diameter of Well: \_\_\_\_\_ inches.

MARK OUT ONE THAT DOES NOT APPLY

FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	5	Surface	310	320	Red Red
5	25	Light brown sand			
25	100	Light brown sand	320	330	Light brown clay
100	180	Light brown sand	330	340	Light brown clay
180	210	Light brown sand	340	350	Light brown clay
210	240	Light brown sand	350	360	Light brown clay
240	255	Light brown sand	360	370	Light brown clay
255	260	Light brown sand	370	380	Light brown clay
260	270	Light brown sand	380	390	Light brown clay
270	280	Light brown sand	390	400	Light brown clay
280	290	Light brown sand	400	410	Light brown clay
290	300	Light brown sand	410	420	Light brown clay

REMARKS:

RECEIVED

LUBBOCK, TEXAS

MAR 11 1969

HI-PLAINS UNDERGROUND  
WATER CONS. DIST. NO. 1

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller \_\_\_\_\_ Address \_\_\_\_\_ Date Drilled \_\_\_\_\_ 19 \_\_\_\_\_

DESCRIPTION OF WELL AND PRODUCTION EQUIPMENT

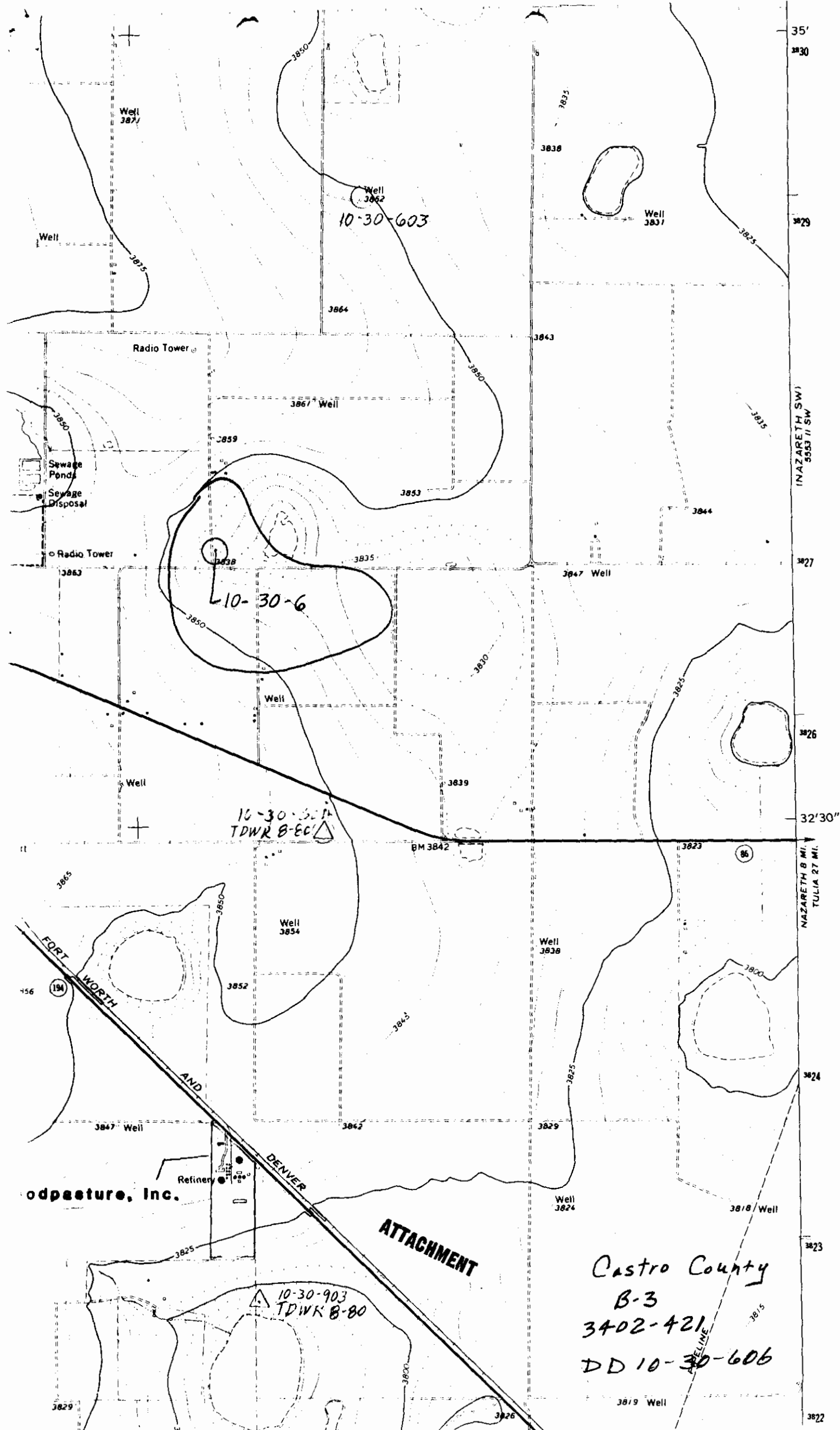
(This Does Not Mean Testing or Development Pump)

6. Casing: new, used, gas line, or shop made. Diameter \_\_\_\_\_ in Total casing length \_\_\_\_\_ ft.  
7. Casing perforations: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size \_\_\_\_\_ Number of rows \_\_\_\_\_  
8. Pump Column: Size \_\_\_\_\_ in. Column, shaft length \_\_\_\_\_ ft. Suction pipe size \_\_\_\_\_ in. Suction pipe length \_\_\_\_\_ ft.  
9. Pump bowls: Size \_\_\_\_\_ Number of stages \_\_\_\_\_ Pump discharge pipe: Size \_\_\_\_\_ in.  
10. Depth to water level \_\_\_\_\_ ft. Pump yield \_\_\_\_\_ GPM. Pumping level: \_\_\_\_\_ ft.  
11. Power Unit: Electrical, Natural Gas, Butane, Other \_\_\_\_\_ Horsepower \_\_\_\_\_

Signature \_\_\_\_\_ LANDOWNER OR AGENT TITLE ADDRESS

ATTACHMENT

DD 10-30-606



Typewrite (Black ribbon) or Print Plainly  
(soft pencil or black ink)  
Do not use ball point pen

Texas Department of Health Laboratories  
1100 West 49th Street  
Austin, Texas 78756

TDWR ONLY

Organization No. \_\_\_\_\_ Lab No.   

Work No. \_\_\_\_\_

CHEMICAL WATER ANALYSIS REPORT

Send report to:

Data Collection and Evaluation Section  
Texas Department of Water Resources  
P.O. Box 13087  
Austin, Texas 78711

MAR 31 1982

CWTDWR

TDWR-HPUWCD#1 Special

County 035 Castro  
State Well No. 1030606  
Well No. 3063  
Date Collected 07-10-81  
HPUWCD#1  
By Obbie Goolsby

Location South 1/2 of Tract 15, BIK.M Sample No.    By Obbie Goolsby  
Source (type of well) Turbine Owner Amstar Corp. Dimmitt, Texas  
Date Drilled \_\_\_\_\_ Depth \_\_\_\_\_ ft. WBF Ogallala     
Producing intervals \_\_\_\_\_ Water level \_\_\_\_\_ ft. Sample depth    ft.  
Sampled after pumping Cont. hrs. Yield \_\_\_\_\_ GPM meas. est. Temperature    °F    °C  
Point of collection Faucet on discharge pipe Appearance ☒ clear ☐ turbid ☐ colored ☐ other  
Use Irr. Remarks \_\_\_\_\_

FOR LABORATORY USE ONLY

CHEMICAL ANALYSIS

KEY PUNCHED MAR 31 1981

Laboratory No. CE1-17250

Date Received JUL 29 1981

Date Reported \_\_\_\_\_

**10X**

	MG/L	ME/L
Silica . . . 00955 . . .	<span style="border: 1px solid black; padding: 2px;">70</span>	
Calcium . . . 00915 . . .	<span style="border: 1px solid black; padding: 2px;">70</span>	<span style="border: 1px solid black; padding: 2px;">3.52</span>
Magnesium . . . 00925 . . .	<span style="border: 1px solid black; padding: 2px;">45</span>	<span style="border: 1px solid black; padding: 2px;">3.72</span>
Sodium . . . 00929 . . .	<span style="border: 1px solid black; padding: 2px;">46</span>	<span style="border: 1px solid black; padding: 2px;">2.00</span>
Total		<span style="border: 1px solid black; padding: 2px;">9.44</span>
<input type="checkbox"/> Potassium . 00937 . . .	<span style="border: 1px solid black; padding: 2px;">8.0</span>	<span style="border: 1px solid black; padding: 2px;">0.20</span>
<input type="checkbox"/> Manganese . 01055 . . .		<span style="border: 1px solid black; padding: 2px;">%</span>
<input type="checkbox"/> Boron . . . 01022 . . .		<span style="border: 1px solid black; padding: 2px;">SAR</span>
<input type="checkbox"/> Total Iron . 01045 . . .		<span style="border: 1px solid black; padding: 2px;">RSC</span>
<input type="checkbox"/> (other) _____ MG/L		
Specific Conductance (micromhos/cm <sup>3</sup> ) . 00095 .	<span style="border: 1px solid black; padding: 2px;">827</span>	
Diluted Conductance (micromhos/cm <sup>3</sup> )	<u>6 x 171</u>	<u>1026</u>

☐ " items will be analyzed if checked.

	MG/L	ME/L
Carbonate . . . 00445 . . .	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0.00</span>
<sup>117</sup> Bicarbonate . . . 00440 . . .	<span style="border: 1px solid black; padding: 2px;">238</span>	<span style="border: 1px solid black; padding: 2px;">3.90</span>
Sulfate . . . 00945 . . .	<span style="border: 1px solid black; padding: 2px;">51</span>	<span style="border: 1px solid black; padding: 2px;">1.06</span>
Chloride . . . 00940 . . .	<span style="border: 1px solid black; padding: 2px;">143</span>	<span style="border: 1px solid black; padding: 2px;">4.03</span>
Fluoride . . . 00951 . . .	<span style="border: 1px solid black; padding: 2px;">2.7</span>	<span style="border: 1px solid black; padding: 2px;">0.14</span>
Nitrate . . . 71850 . . .	<span style="border: 1px solid black; padding: 2px;">29.9</span>	<span style="border: 1px solid black; padding: 2px;">0.48</span>
pH . . . . 00403 . . .	<span style="border: 1px solid black; padding: 2px;">7.8</span>	Total <span style="border: 1px solid black; padding: 2px;">9.61</span>
<sup>1</sup> Dissolved Solids (residue at 180°C) . 70300 .		<span style="border: 1px solid black; padding: 2px;">580</span>
Phenolphthalein Alkalinity as CaCO <sub>3</sub> . 00415 .	<span style="border: 1px solid black; padding: 2px;">(6)</span>	<span style="border: 1px solid black; padding: 2px;">0</span>
Total Alkalinity as CaCO <sub>3</sub> . 00410 .	<span style="border: 1px solid black; padding: 2px;">(3.90)</span>	<span style="border: 1px solid black; padding: 2px;">195</span>
Total Hardness as CaCO <sub>3</sub> . . . 00900 . . .	<span style="border: 1px solid black; padding: 2px;">(7.24)</span>	<span style="border: 1px solid black; padding: 2px;">362</span>
<sup>2</sup> Nitrogen Cycle		
Ammonia - N . . . . . 00610 . . .		
Nitrite - N . . . . . 00615 . . .		
Nitrate - N . . . . . 00620 . . .		
Organic Nitrogen . . . . . 00605 . . .		

<sup>1</sup> The bicarbonate reported in this analysis can be converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure used in the computation of dissolved solids.

<sup>2</sup> Nitrogen cycle requires separate sample.

<sup>3</sup> Total Iron and Manganese require separate sample.

**Appendix I**  
**Groundwater Quality Assessment**

## **Groundwater Quality Report**

The impact on groundwater is estimated to be very minimal to none. A maximum flow of 0.75 MGD results in a rate of 2.3 ac/ft/year of effluent applied to 477 acres of land, at a rate to not exceed the root zone of the land applied area. Data obtained from the High Plains Water District shows groundwater depths exceeding 200 feet in wells surrounding Dimmitt, making groundwater pollution from land application of wastewater unlikely. Irrigated crops and associated land can be considered as an additional treatment unit, which will provide a pathway for nutrients to be extracted from the irrigated area. The City conducts biannual groundwater monitoring to ensure the quality of the water has not been affected.

**Appendix J**  
**Soil Map and Analysis**



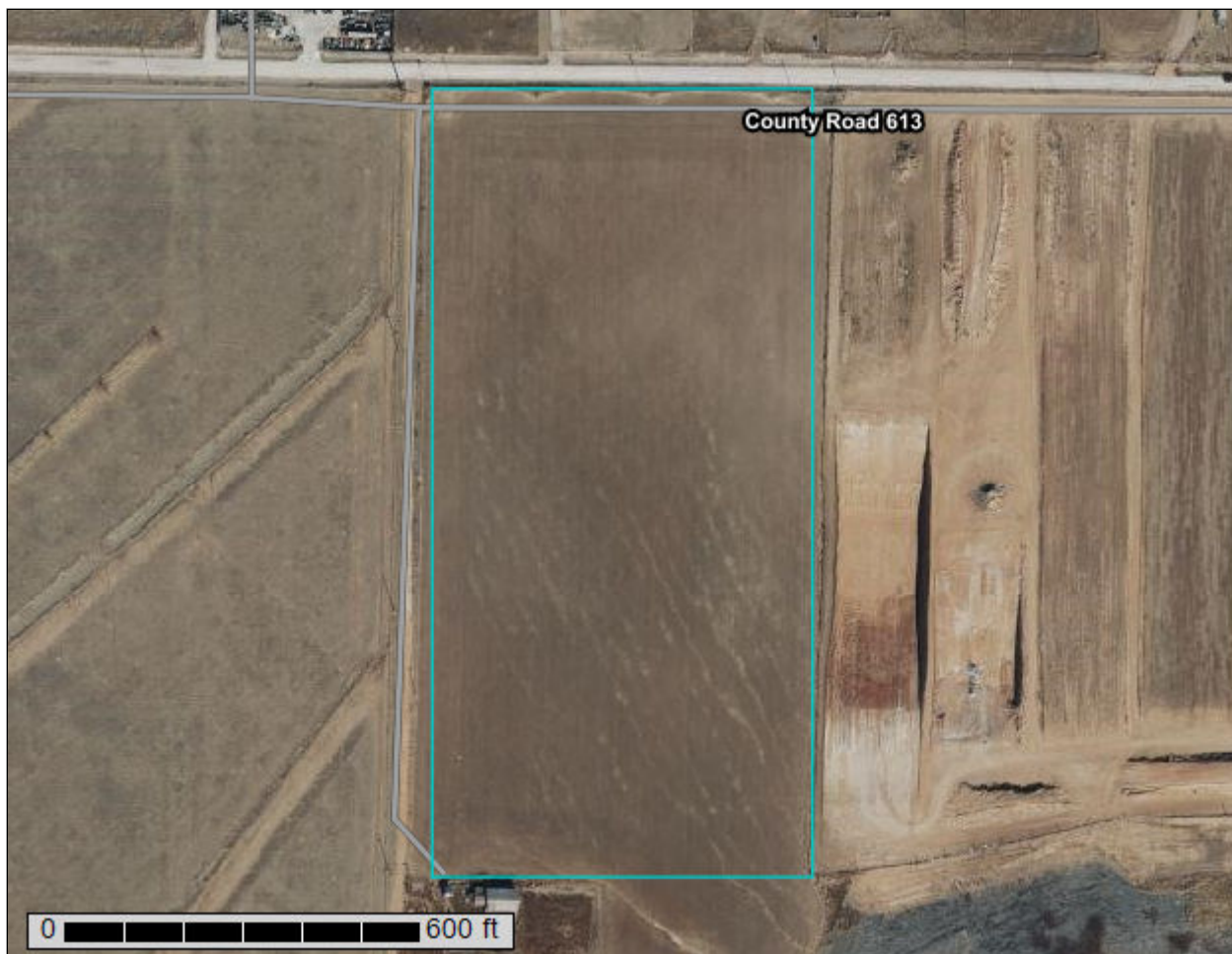
United States  
Department of  
Agriculture

**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 **Castro County, Texas**



# 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](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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require



alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

# Contents

---

<b>Preface</b> .....	2
<b>How Soil Surveys Are Made</b> .....	5
<b>Soil Map</b> .....	8
Soil Map.....	9
Legend.....	10
Map Unit Legend.....	11
Map Unit Descriptions.....	11
Castro County, Texas.....	13
EcB—Estacado clay loam, 1 to 3 percent slopes.....	13
PuA—Pullman clay loam, 0 to 1 percent slopes.....	14
PuB—Pullman clay loam, 1 to 3 percent slopes.....	16
<b>References</b> .....	18

# 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

## Custom Soil Resource Report

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



# Custom Soil Resource Report

## 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 1:20,000.

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: Castro County, Texas  
Survey Area Data: Version 22, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 16, 2022—Jan 29, 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
EcB	Estacado clay loam, 1 to 3 percent slopes	8.1	41.0%
PuA	Pullman clay loam, 0 to 1 percent slopes	3.2	16.2%
PuB	Pullman clay loam, 1 to 3 percent slopes	8.4	42.7%
<b>Totals for Area of Interest</b>		<b>19.6</b>	<b>100.0%</b>

## 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.

## Castro County, Texas

### EcB—Estacado clay loam, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* db38  
*Elevation:* 2,800 to 5,000 feet  
*Mean annual precipitation:* 17 to 21 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 185 to 220 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Estacado and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Estacado

##### Setting

*Landform:* Playa slopes, plains  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy eolian deposits

##### Typical profile

*Ap - 0 to 5 inches:* clay loam  
*Bt1 - 5 to 18 inches:* clay loam  
*Bt2 - 18 to 37 inches:* clay loam  
*Btk - 37 to 49 inches:* clay loam  
*Btkk - 49 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  
(0.20 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 (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 5.0  
*Available water supply, 0 to 60 inches:* Moderate (about 9.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 2e  
*Hydrologic Soil Group:* B  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

### Minor Components

#### **Bovina**

*Percent of map unit:* 7 percent  
*Landform:* Playa slopes, plains  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Linear  
*Ecological site:* R077CY028TX - Limy Upland 16-21" PZ  
*Hydric soil rating:* No

#### **Olton**

*Percent of map unit:* 5 percent  
*Landform:* Playa slopes, plains  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Linear  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

#### **Pep**

*Percent of map unit:* 3 percent  
*Landform:* Playa slopes, plains  
*Landform position (three-dimensional):* Dip, talf  
*Down-slope shape:* Concave, convex  
*Across-slope shape:* Linear  
*Ecological site:* R077CY028TX - Limy Upland 16-21" PZ  
*Hydric soil rating:* No

### **PuA—Pullman clay loam, 0 to 1 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* f5ry  
*Elevation:* 2,800 to 5,000 feet  
*Mean annual precipitation:* 17 to 21 inches  
*Mean annual air temperature:* 55 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* All areas are prime farmland

#### **Map Unit Composition**

*Pullman and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Pullman**

##### **Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear

## Custom Soil Resource Report

*Across-slope shape:* Linear  
*Parent material:* Clayey eolian deposits

### Typical profile

*Ap - 0 to 5 inches:* clay loam  
*Bt - 5 to 33 inches:* silty clay loam  
*Btk1 - 33 to 52 inches:* clay loam  
*Btk2 - 52 to 80 inches:* clay

### Properties and qualities

*Slope:* 0 to 1 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 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:* 60 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water supply, 0 to 60 inches:* High (about 10.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* 3s  
*Land capability classification (nonirrigated):* 3s  
*Hydrologic Soil Group:* C  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

### Minor Components

#### Olton

*Percent of map unit:* 4 percent  
*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

#### Pantex

*Percent of map unit:* 4 percent  
*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

#### Estacado

*Percent of map unit:* 2 percent  
*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear

## Custom Soil Resource Report

*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ

*Hydric soil rating:* No

### **PuB—Pullman clay loam, 1 to 3 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* f5rz

*Elevation:* 2,800 to 5,000 feet

*Mean annual precipitation:* 17 to 21 inches

*Mean annual air temperature:* 57 to 63 degrees F

*Frost-free period:* 185 to 220 days

*Farmland classification:* All areas are prime farmland

#### **Map Unit Composition**

*Pullman and similar soils:* 90 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Pullman**

##### **Setting**

*Landform:* Playa slopes, plains

*Landform position (three-dimensional):* Dip, tal

*Down-slope shape:* Concave, convex

*Across-slope shape:* Linear

*Parent material:* Clayey eolian deposits

##### **Typical profile**

*Ap - 0 to 4 inches:* clay loam

*Bt - 4 to 32 inches:* silty clay loam

*Btk1 - 32 to 51 inches:* clay loam

*Btk2 - 51 to 80 inches:* clay

##### **Properties and qualities**

*Slope:* 1 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* 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:* 60 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 4.0

*Available water supply, 0 to 60 inches:* High (about 10.6 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* 3s

*Land capability classification (nonirrigated):* 3s

## Custom Soil Resource Report

*Hydrologic Soil Group: C*

*Ecological site: R077CY022TX - Deep Hardland 16-21" PZ*

*Hydric soil rating: No*

### Minor Components

#### **Estacado**

*Percent of map unit: 4 percent*

*Landform: Plains*

*Landform position (three-dimensional): Talf*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Ecological site: R077CY022TX - Deep Hardland 16-21" PZ*

*Hydric soil rating: No*

#### **Olton**

*Percent of map unit: 4 percent*

*Landform: Plains*

*Landform position (three-dimensional): Talf*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Ecological site: R077CY022TX - Deep Hardland 16-21" PZ*

*Hydric soil rating: No*

#### **Pep**

*Percent of map unit: 2 percent*

*Landform: Playa slopes, plains*

*Landform position (three-dimensional): Dip, talf*

*Down-slope shape: Concave, convex*

*Across-slope shape: Linear*

*Ecological site: R077CY028TX - Limy Upland 16-21" PZ*

*Hydric soil rating: No*

# References

---

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_054262](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262)
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053580](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580)
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>



## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)



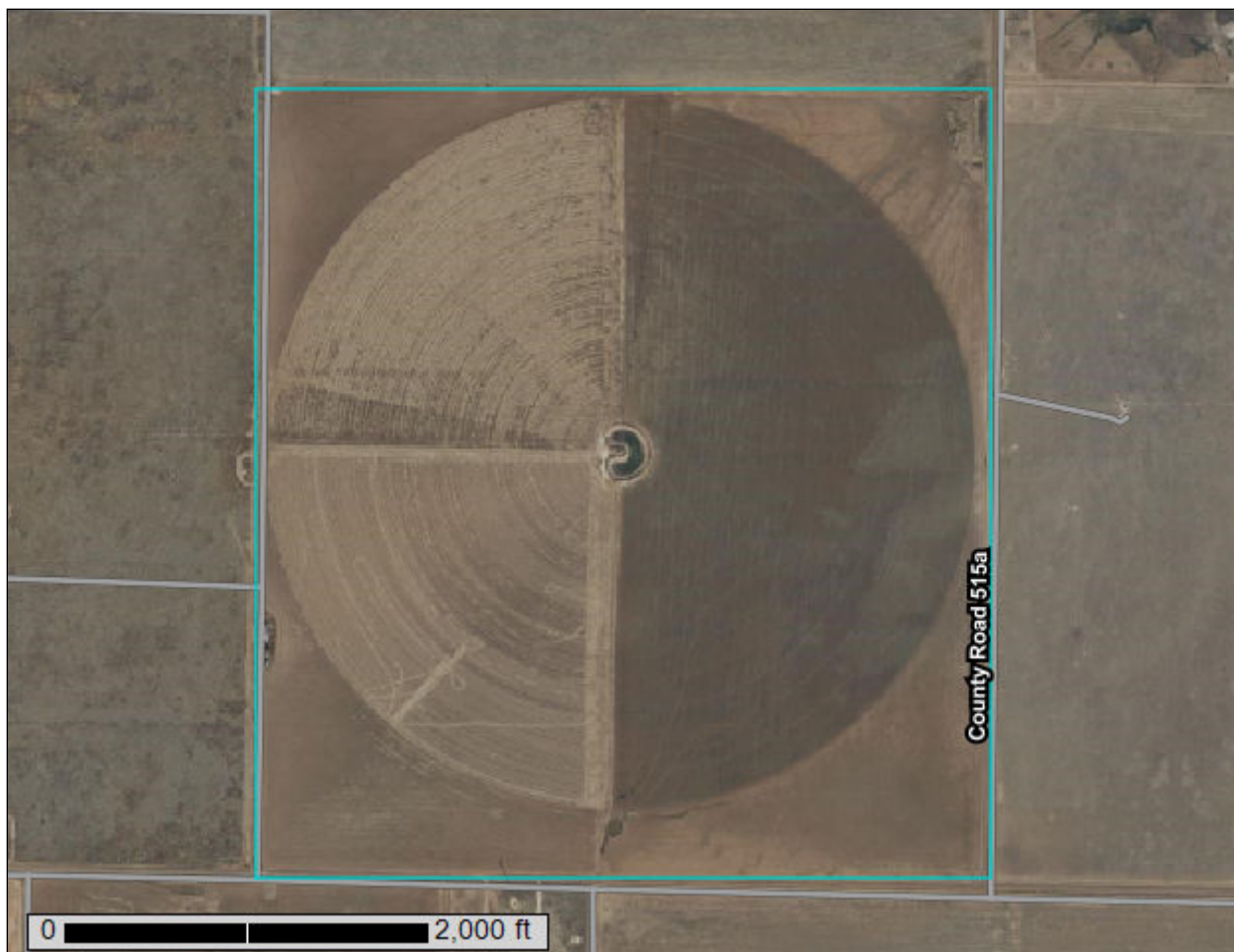
United States  
Department of  
Agriculture

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 Castro County, Texas



# 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](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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

# Contents

---

<b>Preface</b> .....	2
<b>How Soil Surveys Are Made</b> .....	5
<b>Soil Map</b> .....	8
Soil Map.....	9
Legend.....	10
Map Unit Legend.....	11
Map Unit Descriptions.....	11
Castro County, Texas.....	13
EcA—Estacado clay loam, 0 to 1 percent slopes.....	13
PuA—Pullman clay loam, 0 to 1 percent slopes.....	14
PuB—Pullman clay loam, 1 to 3 percent slopes.....	16
<b>References</b> .....	18

# 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

## Custom Soil Resource Report

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



# Custom Soil Resource Report

## 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 1:20,000.

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: Castro County, Texas

Survey Area Data: Version 22, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 16, 2022—Jan 29, 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
EcA	Estacado clay loam, 0 to 1 percent slopes	44.8	11.2%
PuA	Pullman clay loam, 0 to 1 percent slopes	324.3	81.3%
PuB	Pullman clay loam, 1 to 3 percent slopes	30.0	7.5%
<b>Totals for Area of Interest</b>		<b>399.1</b>	<b>100.0%</b>

## 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.

## Castro County, Texas

### EcA—Estacado clay loam, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* db39  
*Elevation:* 2,800 to 5,000 feet  
*Mean annual precipitation:* 17 to 21 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 185 to 220 days  
*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Estacado and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Estacado

##### Setting

*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy eolian deposits

##### Typical profile

*Ap - 0 to 6 inches:* clay loam  
*Bt1 - 6 to 19 inches:* clay loam  
*Bt2 - 19 to 38 inches:* clay loam  
*Btk - 38 to 50 inches:* clay loam  
*Btkk - 50 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  
(0.20 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 (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Moderate (about 9.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 1  
*Land capability classification (nonirrigated):* 2c  
*Hydrologic Soil Group:* B  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

**Minor Components**

**Bovina**

*Percent of map unit:* 7 percent  
*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077CY028TX - Limy Upland 16-21" PZ  
*Hydric soil rating:* No

**Olton**

*Percent of map unit:* 5 percent  
*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ  
*Hydric soil rating:* No

**Pep**

*Percent of map unit:* 3 percent  
*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077CY028TX - Limy Upland 16-21" PZ  
*Hydric soil rating:* No

**PuA—Pullman clay loam, 0 to 1 percent slopes**

**Map Unit Setting**

*National map unit symbol:* f5ry  
*Elevation:* 2,800 to 5,000 feet  
*Mean annual precipitation:* 17 to 21 inches  
*Mean annual air temperature:* 55 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* All areas are prime farmland

**Map Unit Composition**

*Pullman and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pullman**

**Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear

## Custom Soil Resource Report

*Across-slope shape:* Linear

*Parent material:* Clayey eolian deposits

### Typical profile

*Ap - 0 to 5 inches:* clay loam

*Bt - 5 to 33 inches:* silty clay loam

*Btk1 - 33 to 52 inches:* clay loam

*Btk2 - 52 to 80 inches:* clay

### Properties and qualities

*Slope:* 0 to 1 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 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:* 60 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 4.0

*Available water supply, 0 to 60 inches:* High (about 10.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* 3s

*Land capability classification (nonirrigated):* 3s

*Hydrologic Soil Group:* C

*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ

*Hydric soil rating:* No

### Minor Components

#### Olton

*Percent of map unit:* 4 percent

*Landform:* Plains

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ

*Hydric soil rating:* No

#### Pantex

*Percent of map unit:* 4 percent

*Landform:* Plains

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ

*Hydric soil rating:* No

#### Estacado

*Percent of map unit:* 2 percent

*Landform:* Plains

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear



## Custom Soil Resource Report

*Ecological site:* R077CY022TX - Deep Hardland 16-21" PZ

*Hydric soil rating:* No

### **PuB—Pullman clay loam, 1 to 3 percent slopes**

#### **Map Unit Setting**

*National map unit symbol:* f5rz

*Elevation:* 2,800 to 5,000 feet

*Mean annual precipitation:* 17 to 21 inches

*Mean annual air temperature:* 57 to 63 degrees F

*Frost-free period:* 185 to 220 days

*Farmland classification:* All areas are prime farmland

#### **Map Unit Composition**

*Pullman and similar soils:* 90 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### **Description of Pullman**

##### **Setting**

*Landform:* Playa slopes, plains

*Landform position (three-dimensional):* Dip, talf

*Down-slope shape:* Concave, convex

*Across-slope shape:* Linear

*Parent material:* Clayey eolian deposits

##### **Typical profile**

*Ap - 0 to 4 inches:* clay loam

*Bt - 4 to 32 inches:* silty clay loam

*Btk1 - 32 to 51 inches:* clay loam

*Btk2 - 51 to 80 inches:* clay

##### **Properties and qualities**

*Slope:* 1 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* 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:* 60 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 4.0

*Available water supply, 0 to 60 inches:* High (about 10.6 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* 3s

*Land capability classification (nonirrigated):* 3s

## Custom Soil Resource Report

*Hydrologic Soil Group: C*

*Ecological site: R077CY022TX - Deep Hardland 16-21" PZ*

*Hydric soil rating: No*

### Minor Components

#### **Estacado**

*Percent of map unit: 4 percent*

*Landform: Plains*

*Landform position (three-dimensional): Talf*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Ecological site: R077CY022TX - Deep Hardland 16-21" PZ*

*Hydric soil rating: No*

#### **Olton**

*Percent of map unit: 4 percent*

*Landform: Plains*

*Landform position (three-dimensional): Talf*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Ecological site: R077CY022TX - Deep Hardland 16-21" PZ*

*Hydric soil rating: No*

#### **Pep**

*Percent of map unit: 2 percent*

*Landform: Playa slopes, plains*

*Landform position (three-dimensional): Dip, talf*

*Down-slope shape: Concave, convex*

*Across-slope shape: Linear*

*Ecological site: R077CY028TX - Limy Upland 16-21" PZ*

*Hydric soil rating: No*

# References

---

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_054262](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262)
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053580](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580)
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)



Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page \_\_\_\_\_ of \_\_\_\_\_

Project Manager:	Tony Rios	Bill to: (if different)	
Company Name:	City of Dimmitt	Company Name:	
Address:	PO Box 146	Address:	
City, State Zip:	Dimmitt, TX 79007	City, State Zip:	
Phone:	806-647-4492	Email:	rios.tony10@yahoo.com

Program:	UST/ST	Prep	Brownfields	RRC	Superfund
State of Project:					
Reporting Level I:	<input type="checkbox"/>	Level II:	<input type="checkbox"/>	PST/UST:	<input type="checkbox"/>
Deliverables:	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:

Project Name:	Northfield Soil Samples	Turn Around	<input type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:		TAT starts the day received by the lab, if received by 4:30pm			
Sample Name:					
PO #:					
SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Samples Received Intact:	Yes (No)	Thermometer ID:			
Cooler Custody Seals:	Yes (No)	Correction Factor:			
Sample Custody Seals:	Yes (No)	Temperature Reading:			
Total Containers:		Corrected Temperature:			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grid/Comp
0-6" East Side	S	9-5-23	10:09Am	0-6"	
6-18" East Side	S	9-5-23	10:12Am	6-18"	
18-30" East Side	S	9-5-23	10:15Am	18-30"	
0-6" South Side	S	9-5-23	9:56Am	0-6"	
6-18" South Side	S	9-5-23	10:00Am	6-18"	
18-30" South Side	S	9-5-23	10:05Am	18-30"	
0-6" North Side	S	9-5-23	10:18Am	0-6"	
6-18" North Side	S	9-5-23	10:21Am	6-18"	
18-30" North Side	S	9-5-23	10:25Am	18-30"	

Electrical Conductivity					
Nitrate Nitrogen					
Total Kjeldahl Nitrogen					
Total Nitrogen					
Plant AV Phosphorus					
Plant AV Potassium					
pH					

Preservative Codes	None: NO	DI Water: H <sub>2</sub> O
	Cool: COI	MeOH: Me
	HCL: HC	HNO <sub>3</sub> : HN
	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
	H <sub>2</sub> PO <sub>4</sub> : HP	
	NaHSO <sub>4</sub> : MBS	
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>	
	Zn Acetate+NaOH: Zn	
	NaOH+Ascorbic Acid: SAPC	

Sample Comments	
-----------------	--

Total 2007/6010	2008/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP/SPLD 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631/245.1/7470/7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Tony Rios	Keith Ackel	9-5-23/200Am	Keith Ackel	Toddy Handberg	9/6/25 11:10

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	28076	51169
PERMIT NUMBER	YYYY/MM	EID	MONT ID	REQ SET

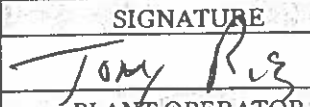

THIS REPORT TO BE USED FOR SOIL MON. 0-6"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTHFIELD / EAST SIDE  
SOIL SAMPLE DRYLAND

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
		Value Units			
6251430-TOTAL KJELDAHL NITROGEN	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	847			
819001430-NITRATE NITROGEN, EXTRACTABLE	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	93.2			
825836030-PH, SOIL WATER	Permitted		STANDARD UNITS	1/YEAR	24-HR COMP
	Reported	7.6			
9381430-PLANT AVAILABLE POTASSIUM	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	1440			
941830-CONDUCTIVITY, ELECTRIC	Permitted		MMHOS/CM	1/YEAR	24-HR COMP
	Reported	1040			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	94.1			
6001430-TOTAL NITROGEN AS N	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	940			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.		NAME	SIGNATURE	DATE
		TONY RIOS		9-26-23
TELEPHONE NUMBER		PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Jackson		9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO DAY

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	29865	53090
PERMIT NUMBER	YYYY/MM	EID	MONT ID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 6-18"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTHFIELD / EAST SIDE  
SOIL SAMPLE DRY LAND

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
		Value			
6001430-TOTAL NITROGEN AS N	Permitted			1/YEAR	24-HR COMP
	Reported	971			
819001430-NITRATE NITROGEN, EXTRACTABLE	Permitted			1/YEAR	24-HR COMP
	Reported	166			
941830-CONDUCTIVITY, ELECTRIC	Permitted			1/YEAR	24-HR COMP
	Reported	760			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted			1/YEAR	24-HR COMP
	Reported	18.0			
825836030-PH, SOIL WATER	Permitted			1/YEAR	24-HR COMP
	Reported	7.8			
9381430-PLANT AVAILABLE POTASSIUM	Permitted			1/YEAR	24-HR COMP
	Reported	775			
6251430-TOTAL KJELDAHL NITROGEN	Permitted			1/YEAR	24-HR COMP
	Reported	805			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE	NAME	SIGNATURE	DATE
	TONY RIOS	[Signature]	9-26-23
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Talker	9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER
			YEAR MO DAY

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	29866	53091
PERMIT NUMBER	YYYY/MM	EID	MONTH	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 18-30"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH Side / EAST Side

SOIL SAMPLE DRYLAND

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
	Value	Units			
819001430- NITRATE NITROGEN EXTRACTABLE	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	108			
941830- CONDUCTIVITY ELECTRIC	Permitted		MMHOS/CM	1/YEAR	24-HR COMP
	Reported	984			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	10.5			
8258360-30-PH SOIL WATER	Permitted		STANDARD UNITS	1/YEAR	24-HR COMP
	Reported	8.2			
6251430-TOTAL KJELDAHL NITROGEN	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	586			
9381430-PLANT AVAILABLE POTASSIUM	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	445			
6001430-TOTAL NITROGEN AS N	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	694			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE	NAME	SIGNATURE	DATE
	TONY RIOS	Tony Rios	9-26-23
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Jackson	9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER
			YEAR MO DAY



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	28076	51169
PERMIT NUMBER	YYYY/MM	EID	MONT ID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 0-6"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH FIELD / South Side

SOIL SAMPLES Dry LAND

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
		Value			
6251430-TOTAL KJELDAHL NITROGEN	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	1160			
819001430-NITRATE NITROGEN, EXTRACTABLE	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	175			
825836030-PH, SOIL WATER	Permitted		STANDARD UNITS	1/YEAR	24-HR COMP
	Reported	7.7			
9381430-PLANT AVAILABLE POTASSIUM	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	1360			
941830-CONDUCTIVITY, ELECTRIC	Permitted		MMHOS/CM	1/YEAR	24-HR COMP
	Reported	1690			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	90.5			
6001430-TOTAL NITROGEN AS N	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	1340			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.	NAME	SIGNATURE	DATE
	Tony Rios	Tony Rios	9-26-23
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806 647-4492	David Jackson		9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER
			YEAR MO DAY

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	29865	53090
PERMIT NUMBER	YYYY/MM	EID	MONT ID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 6-18"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH FIELD / South Side

SOIL SAMPLES Dry Land

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
	Value	Units			
6001430-TOTAL NITROGEN AS N	Permitted			1/YEAR	24-HR COMP
	Reported	728			
819001430-NITRATE NITROGEN, EXTRACTABLE	Permitted			1/YEAR	24-HR COMP
	Reported	92.4			
941830-CONDUCTIVITY, ELECTRIC	Permitted			1/YEAR	24-HR COMP
	Reported	838			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted			1/YEAR	24-HR COMP
	Reported	19.9			
825836030-PH, SOIL WATER	Permitted			1/YEAR	24-HR COMP
	Reported	7.9			
9381430-PLANT AVAILABLE POTASSIUM	Permitted			1/YEAR	24-HR COMP
	Reported	513			
6251430-TOTAL KJELDAHL NITROGEN	Permitted			1/YEAR	24-HR COMP
	Reported	636			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE		NAME	SIGNATURE	DATE
		TONY RIOS	TONY RIOS	9-26-23
TELEPHONE NUMBER		PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Jackson		9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO DAY

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	29866	53091
PERMIT NUMBER	YYYY/MM	EID	MONID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 18-30"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH FIELD / SOUTH SIDE  
SOIL SAMPLES BY LAND

TCEQ COPY

Parameter	Effluent Condition	Value	Units	No. Ex.	Frequency of Analysis	Sample Type
819001430-NITRATE NITROGEN EXTRACTABLE	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	107				
941820-CONDUCTIVITY ELECTRIC	Permitted		MMHOS/CM		1/YEAR	24-HR COMP
	Reported	1020				
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	16.9				
825836030-PH SOIL WATER	Permitted		STANDARD UNITS		1/YEAR	24-HR COMP
	Reported	8.3				
6251430-TOTAL KJELDAHL NITROGEN	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	532				
9381430-PLANT AVAILABLE POTASSIUM	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	414				
6001430-TOTAL NITROGEN ASIN	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	107 639				

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.

NAME		SIGNATURE		DATE	
TONY RIOS		Tony Rios		9-26-23	
TELEPHONE NUMBER		PLANT OPERATOR		PLANT OPERATOR	
806 647-4492		Daniel Jackson		9-26-23	
AREA CODE		EXECUTIVE OFFICER		EXECUTIVE OFFICER	

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	28076	51169
PERMIT NUMBER	YYYY/MM	EID	MONT ID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 0-6"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH FIELD / North Side

SOIL SAMPLES Dryland

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
		Value			
6251430-TOTAL KJELDAHL NITROGEN	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	1290			
819001430-NITRATE NITROGEN, EXTRACTABLE	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	110			
825836030-PH, SOIL WATER	Permitted		STANDARD UNITS	1/YEAR	24-HR COMP
	Reported	7.3			
9381430-PLANT AVAILABLE POTASSIUM	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	3.54			
941830-CONDUCTIVITY, ELECTRIC	Permitted		MMHOS/CM	1/YEAR	24-HR COMP
	Reported	942			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	9.61			
6001430-TOTAL NITROGEN AS N	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	1400			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE	NAME	SIGNATURE	DATE
	TONY RIOS	Tom Rios	9-26-23
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Tuller	9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER
			YEAR MO DAY

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023/09	OTFL 001-2050-OTFL 001	29865	53090
PERMIT NUMBER	YYYY/MM	EID	MONT ID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 6-18"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH FIELD / NORTH SIDE

SOIL SAMPLES DRYLAND

TCEQ COPY

Parameter	Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
	Value	Units			
6001430-TOTAL NITROGEN AS N	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	704			
819001430-NITRATE NITROGEN, EXTRACTABLE	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	101			
941830-CONDUCTIVITY, ELECTRIC	Permitted		MMHOS/CM	1/YEAR	24-HR COMP
	Reported	8.33			
6641430-PLANT AVAILABLE PHOSPHORUS	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	68.4			
825836030-PH, SOIL WATER	Permitted		STANDARD UNITS	1/YEAR	24-HR COMP
	Reported	7.7			
9381430-PLANT AVAILABLE POTASSIUM	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	869			
6251430-TOTAL KJELDAHL NITROGEN	Permitted		MG/KG	1/YEAR	24-HR COMP
	Reported	603			

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE	NAME	SIGNATURE	DATE
	TONY RIOS	Tony Rios	9-26-23
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Jackson	9-26-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER
			YEAR MO DAY



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087

## MONTHLY EFFLUENT REPORT

OWNER, CN600249668, CITY OF DIMMITT

CITY OF DIMMITT  
PO BOX 146  
DIMMITT TX 79027

Page 1 of 1

WQ0010080001	2023 / 09	OTFL 001-2050-OTFL 001	29866	53091
PERMIT NUMBER	YMD/MM	EID	MONID	REQ SET

THIS REPORT TO BE USED FOR SOIL MON. 18-30"  
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

NORTH FIELD / North Side  
SOIL SAMPLES Dryland

TCEQ COPY

Parameter		Effluent Condition		No. Ex.	Frequency of Analysis	Sample Type
		Value	Units			
819001430-NITRATE-NITROGEN-EXTRACTABLE	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	135				
941830-CONDUCTIVITY-ELECTRIC	Permitted		MMHOS/CM		1/YEAR	24-HR COMP
	Reported	1210				
6641430-PLANT-AVAILABLE-PHOSPHORUS	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	16.7				
825836030-PH-SOILWATER	Permitted		STANDARD UNITS		1/YEAR	24-HR COMP
	Reported	8.0				
6251430-TOTAL-KJELDAHL-NITROGEN	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	854				
9381430-PLANT-AVAILABLE-POTASSIUM	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	409				
6001430-TOTAL-NITROGEN-ASIN	Permitted		MG/KG		1/YEAR	24-HR COMP
	Reported	989				

COMMENTS AND EXPLANATIONS (Reference all attachments here)

I CERTIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.		NAME	SIGNATURE	DATE
		TONY RIOS	Tony Rios	9-16-23
TELEPHONE NUMBER		PLANT OPERATOR	PLANT OPERATOR	YEAR MO DAY
806	647-4492	Daniel Jackson	[Signature]	9-16-23
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO DAY

**Appendix K**  
**Landowner Agreement**

# **FARM LEASE AND WATER DISPOSAL AGREEMENT**

THE STATE OF TEXAS )

COUNTY OF CASTRO )

KNOW ALL MEN BY THESE PRESENTS

## **Parties:**

1.01 That, the **CITY OF DIMMITT, TEXAS**, acting by and through its duly authorized Mayor, **WAYNE COLLINS**, hereinafter referred to as "Lessor", and **LINDA GIVENS ESTATE TRUST #I & II**, hereinafter referred to as "Lessee", for good and valuable consideration, have contracted as follows:

## **Property:**

2.01 Lessor hereby leases to Lessee, for farming, the following described real property, to-wit:

All of Surveys Number Eighteen (18) and Nineteen (19), Block M, Patent No. 528, Volume 25 and Patent No. 220, Volume 26, Castro County, Texas, SAVE AND EXCEPT 70.6 acres of land heretofore deed to the Western Warehouse company by deed dated July 1, 1952, recorded in Volume 74, page 456, Deed Records, Castro County, Texas, and SAVE AND EXCEPT 12 acres of land conveyed by F. U. JACKSON and wife, IVEY JACKSON to the City of Dimmitt by deed dated May 21, 1965, recorded in Volume 116, page 521, Deed Records, Castro County, Texas;

2.02 Lessor hereby leases to Lessee the following personal property, to-wit:

a. All improvements located upon the above described real estate as hereinafter defined; and,

b. The water pipeline extending for the playa lake located on the above described property to its point of termination within the right-of-way of the county road located North of said property.

## **Term:**

3.01 Subject to the provisions hereinafter set forth, the primary term of this lease shall be for the crop years 1999/2000, commencing on the effective date of this contract, being January 15, 1999 and terminating on August 1, 2004 (herein referred to as the Primary Term).



3.02 Lessee and Lessor hereby covenant and agree that, following the primary term, this lease agreement shall automatically be renewed and extended upon the same terms and conditions for successive one (1) year terms, unless either party shall, prior to the first day of December of the year 2003 or any subsequent year, give the remaining party notice of their intention not to renew this agreement upon the terms and conditions hereinafter stated.

3.03 Lessee and Lessor hereby covenant and agree that this lease agreement may be modified or terminated upon mutual consent of the parties hereto, prior to the expiration of the primary or subsequent rental term.

3.04 Lessee shall not be reimbursed for land preparation or expenses incurred for wheat to be harvested after July 31, 2004. The city will in its sole discretion shall decide if the land is to be offered for farming purposes after July 31, 2005.

**Consideration:**

4.01 The consideration to be paid to lessor by Lessee for the 1999/2000 crop year (January 15, 1999 through July 31, 2000) shall be \$ 2,000.00 cash to be paid by Lessee to Lessor on or before January 15, 1999. The same amount of cash consideration for subsequent crop years shall be paid in advance on or before the 15th day of January in 2001, 2002, 2003, and 2004 for the corresponding crop year and for each crop year following the primary term. Failure to pay the cash rental timely shall be an event of default under this agreement.

4.02 As additional consideration to be paid to Lessor by Lessee shall be the agreement between Lessor and Lessee for the maintenance of the water pipeline and for the extraction of surface water from the playa lake contained within the boundaries of the above described property.

**Reservation For Waste Disposal:**

5.01 The above described property was originally purchased by Lessor as a location for solid waste disposal and sewer disposal. Lessor may be required to utilize additional portions of the property for solid waste and/or sewer disposal during the term of this agreement. In the event Lessor shall require additional acreage for solid waste and/or sewer disposal during the term of this agreement, Lessee shall be reimbursed for all reasonable out-of-pocket expenses incurred in the raising of agricultural crops which they are prevented from harvesting because of such taking. Documentation of all expenses to be reimbursed shall be forwarded to Lessor who will reimburse Lessee for all reasonable expenses at the time of relinquishment of possession by Lessee. Lessor shall be responsible only for all reasonable and necessary out-of-pocket expenses incurred by Lessee in land preparation, planting, cultivating and watering of crops which will not be

harvested by Lessee. No reimbursement shall be paid to Lessee for crops which are harvested by Lessee. Lessor shall, as far as may be reasonably permitted, allow Lessee to harvest growing crops.

#### **Use of Playa Lake Water**

6.01 Lessor hereby grants to Lessee the express right to extract all surface water from City's property placed thereon by reason of natural run-off from the surrounding lands and from the discharge of the City of Dimmitt's sewer treatment facilities (ponds).

6.02 Lessee hereby covenants and agrees that Lessee is the owner of the real estate described on Exhibit "A" attached hereto and incorporated herein for all purposes as if fully copied. All covenants and agreements contained herein concerning "Lessee's property" shall be deemed and interpreted to refer to the property described on the attached Exhibit "A".

#### **Maintenance of Playa Lake Water Level**

7.01 At the time of making this agreement, there presently exists on the southern part of the City's property a discharge pipe extending from the City of Dimmitt's old sewer treatment plant. From and after the execution of this agreement, Lessee shall see that the playa lake water level shall be maintained at or below the designated mark made on said discharge pipe, said mark being at least 3 feet below the bottom rim of the discharge pipe above described. So long as the playa lake water level is maintained at or below this level (3 feet below the rim of the discharge pipe) Lessee may extract all surface water from the playa lake at Lessee's discretion.

7.02 At such times as the playa lake may be at a level higher than this predetermined mark (3 feet below the bottom rim of the discharge pipe) then at such times it shall be mandatory for Lessee to extract water from the playa lake at a minimum rate of 1,000 gallons per minute until such time as the water level in said playa lake shall have receded and declined to the predetermined mark of 3 feet below the bottom rim of the discharge pipe.

7.03 All water extracted from the playa lake shall be discharged upon Lessee's property, and on the farmland of the City described in Paragraph 2.01.

#### **Exclusive Rights**

8.01 Lessor hereby grants to Lessee the exclusive right to extract surface water from the playa lake located on above described property and also the exclusive right to use the irrigation well located on the northern part of the City's property for the extraction of sub-surface water during the term of this lease. In connection therewith, Lessor hereby

covenants, warrants and guarantees to Lessee that the City owns all surface water rights to the water located within the boundaries of the City's property.

#### **Maintenance of Pumping Station**

9.01 Lessee shall place an electrical pumping unit at the pumping station located at the termination point of the 10 inch water pipeline located on the east side of the playa lake located on the herein above described property. The pumping unit shall be capable of extracting 1,000 gallons per minute from the playa lake. Lessee shall bear all costs of construction, purchase and maintenance of such pumping facilities.

#### **Maintenance of Pipeline**

10.01 Lessee shall be solely responsible to maintain the 10 inch water pipeline located upon the above described property and within the right-of-way of the county road adjacent and north of said property at Lessee's sole cost and expense. Said water pipeline shall be maintained in such condition so that such pipeline shall be capable of transporting 1,000 gallons per minute at all times. Lessee shall be solely responsible for all energy costs with regard to extracting any surface water from Lessor's property.

#### **Irrigation Well**

11.01 Lessor hereby grants to Lessee the right to extract water through the existing irrigation well on the northern portion of the herein above described property. Lessee shall, at his sole cost and expense, utilize the irrigation well as located in its present condition. In the event Lessee desires not to use the turbine pump presently located within said well, then in such event, Lessee shall, upon removing the turbine pump, shaft, bores, gear-head and appurtenances thereto, deliver all such materials as removed from the well to Lessor at such places as Lessor may designate. The cost of extracting water through the irrigation well shall be the sole responsibility of Lessee and any repairs, replacements and/or maintenance of the irrigation well shall be at the sole cost of Lessee. At the expiration of this lease Lessee shall have the right to remove all irrigation equipment belonging to him and placed in and on the existing well.

#### **Improvements:**

12.01 The improvements located on the above described property, available to Lessee for his use during the term of this lease, are the domestic watering system located on the western portion of the above described property, the barn, corrals and perimeter fences surrounding the above described property. Lessee shall, at their sole cost and expense, use such domestic watering system as he deems necessary, the Lessee being solely responsible financially and otherwise for the repair and/or maintenance of said domestic watering system.

12.02 Lessee shall be fully responsible for the cost and expense of erecting and/or maintaining the existing perimeter fences or such other perimeter fences as Lessee desires to construct.

12.03 The barn and corrals located on the above described property may be maintained and utilized at Lessee's sole cost and expense and shall be returned to Lessor upon the expiration of this lease in substantially the same condition as they now exist on the date of execution of this lease, reasonable wear, tear and damage by the elements excepted.

12.04 In the event of destruction of the barn and/or any other improvements located on the above described premises by fire, windstorm or otherwise, the Lessor shall have no obligation to repair or replace any such improvements as may be destroyed or damaged.

12.05 Located on the above described property are certain underground irrigation flow-lines which may be used in connection with the irrigation well located on the northern portion of the property. In the event Lessee desires to use the underground flow-line located on this property, they may do so at their own cost and expense.

#### **Compliance With Rules and Regulations**

13.01 Lessee hereby covenants and warrants to comply with all rules and regulations of the High Plains Underground Water Conservation District No. 1 in connection with the pumping and use of the irrigation water and the utilization and use of the surface water received from Lessor's property.

13.02 Lessee further covenants and agrees to comply with all rules and regulations as may be promulgated by the Texas Water Quality Board and the Texas Water Rights commission, as well as any other State, Federal or Local Governmental Regulatory Agency with regard to the utilization of underground and/or surface water to be used in connection with this agreement. Lessee and/or Lessor shall have the right to terminate this agreement if it should be determined by a governmental agency that the activities created hereunder are prohibited and such prohibition is beyond the control of Lessee and/or Lessor.

#### **Water Quantity and Quality**

14.01 Lessor hereby makes no covenant or warranty as to the quantity or quality of water that may be available for extraction by use of the irrigation well located on the above described property, and in the event said well is lost by natural causes; i.e., sanding-up, Lessor shall be under no liability or obligation to recover said well or to drill an additional well for use by Lessee.

14.02 Lessor further makes no covenant or warranty as to the quantity or quality of the surface water that may be extracted from the playa lake with regard to the discharge of Lessor's sewer treatment facilities (ponds). Lessor does covenant and agree that all sewer water discharged into the playa lake located on said property shall have first been treated by the City of Dimmitt, Texas, sewer treatment facilities. Lessor further covenants and warrants to use the full extent of its police powers in enforcing all rules and regulations with regard to the discharge of hazardous materials into the sewer system and/or the dumping of hazardous materials into the playa lake located on Lessor's property.

#### **Farming Practices:**

15.01 Lessee shall use accepted conservation methods in preventing soil erosion by wind and water.

15.02 Lessee agrees to plow, plant, irrigate, cultivate, and harvest in a manner attendant to good husbandry.

15.03 Lessee agrees to make a concentrated effort to control and/or eradicate johnson grass and other types of noxious weeds from the land herein leased. The cost of controlling such weeds shall be borne by Lessee.

#### **Government Payments:**

16.01 All government payments connected with the farming of said land during the term of this lease for payment of crop deficiencies and/or disasters shall be the property of Lessee and shall be paid directly to Lessee. In connection therewith, Lessee covenants and agrees to operate this farm so that it is in full compliance with any mandatory government programs that may be in effect now or at any future time. If any such government program contains an option, exercisable by the operator of the farm, Lessee, in his sole discretion, shall have the right to choose which portions of the government programs and which options he selects to operate under.

#### **Indemnification by Lessee:**

17.01 Lessee agrees and covenants to indemnify and hold Lessor harmless against any and all claims, demands, damages, costs and expenses, including reasonable attorney's fees for the defense thereof, arising from the conduct or management of Lessee's business or his use of the above described premises or from any negligent act or omission by Lessee, his agents, servants, employees, contractors, guests or invitees on or about the above described premises. In the event any action or proceeding is brought against Lessor by reason of any of the above, Lessee further agrees and covenants to defend the action or proceeding by legal counsel acceptable to Lessor. This indemnification shall expressly cover all water extracted from the playa lake owned by Lessor and the irrigation

well owned by Lessor used by Lessee, to the extent that Lessee shall be responsible for such water at such time as such water exists property owned by Lessor. To further clarify this covenant to indemnify, Lessee agrees to be wholly responsible for any water received by Lessee through the above described pipeline as extracted from the property of Lessor and shall indemnify Lessor and hold Lessor harmless against any and all claims, demands, damages, costs and expenses, including reasonable attorney's fees for the defense thereof, arising from the escape of such water from the premises of any property owned by Lessee.

17.02 With regard to the water received by Lessee on Lessee's property, Lessee hereby covenants and agrees to indemnify Lessor and hold Lessor harmless with regard to any and all claims, demands, damages, costs and expenses, including reasonable attorney's fees in the defense thereof, arising from the use of such water as extracted, whether voluntarily extracted or mandatorily extracted by reason of this agreement and placed upon Lessee's property, to the extent that Lessee shall have no claim, demand, damage, cost, expense or cause of action against Lessor by reason of damages to land or crops caused by the use of water extracted from Lessor's property.

**Default by Lessee:**

18.01. Lessee shall be in default, and Lessor shall have the right to terminate this lease agreement if:

a. any execution or any other writ of process shall be issued in any action or proceeding against the Lessee, whereby, the above described property, personal or real, may be seized, taken, or detained; or,

b. a proceeding in bankruptcy, receivership, or insolvency shall be instituted by or against the Lessee or his property; or,

c. the Lessee shall enter into any arrangement or composition with his creditors, or if Lessee, with regard to any item or items of personal property; or,

d. the Lessee, fails to observe, keep, or perform any of the provisions of this lease required to be observed, kept, or performed by the Lessee.

**Termination by Lessor:**

19.01 If this lease is terminated by Lessor prior to July 31, 2005, and Lessee has unharvested crops located on the above described premises:

a. Lessee shall be reimbursed for all reasonable out-of-pocket expenses

incurred in the production of the existing crops which they are prevented from harvesting because of such termination;

b. Documentation of all expenses to be reimbursed shall be forwarded to Lessor who will reimburse Lessee for all reasonable expenses at the time of relinquishment of possession by Lessee; and,

c. Lessor shall be responsible only for all reasonable and necessary out-of-pocket expenses incurred by Lessee in land preparation, planting, cultivating and watering of only existing crops which will not be harvested by Lessee.

**Oil & Gas Lease by Lessor:**

20.01 It is understood and agreed that this lease covers farming and grazing rights only, and Lessor shall not be prohibited from executing, acknowledging, and delivering oil, gas, and other mineral leases covering the lands herein leased, nor from granting easements over and across the lands herein leased. In the event the land is leased for oil, gas, or other minerals and exploratory operations under the terms of such oil, gas, and mineral leases are commenced and damages paid for growing crops, such damages shall be shared between Lessor and Lessee. Lessee shall receive all damages paid for loss of crops while Lessor shall be paid for all damages to the land including, but not limited to, damages to the fertility of the soil.

**Waiver:**

21.01 No covenant or condition of this lease may be waived except by the written consent of Lessor. Forbearance or indulgence by Lessor in any regard whatsoever shall not constitute a waiver of the covenant or condition to be performed by Lessee to which the same may apply, and until complete performance by Lessee of any covenant or condition, Lessor shall be entitled to invoke any remedy available to Lessor under this lease or by law or in equity despite said forbearance or indulgence.

**Venue:**

22.01 This lease is performable in Castro County, Texas, and is to be interpreted under and in accordance with the laws of the State of Texas.

**Attorney's Fees:**

23.01 The warranties and representations made herein by the parties shall be deemed to apply as of the time of execution of this lease and shall be construed as continuing warranties and representations and agreements which shall survive the signing unless otherwise provided for herein. In the event either party is required to employ an attorney

to enforce the provisions of this agreement by reason of the alleged default of the other party, and the alleged defaulting party is given written notice of said default, and does not correct said default within a reasonable period of time, after being given written notice to do so, then the prevailing party in any Court litigation, by reason of said default, shall be entitled to be awarded reasonable attorney's fees and costs by reason of said action.

**Amendment/Assignment:**

25.01 It is agreed that the terms and provisions of this contract cannot be altered, except by instrument, in writing, said instrument being first approved by the City Council of the City of Dimmitt, Texas.

25.02 This lease shall not be assigned in whole or in part without the consent of said City Council in writing being first had and obtained, which consent will not be unreasonably withheld.

**Entire Agreement:**

24.01 This agreement embodies the entire agreement and understanding between Lessee and Lessor, and each hereby covenants that there are no other arrangements, memoranda or agreements, representations, warranties or understandings, oral or written, between Lessee and Lessor with respect to the subject matter of this agreement.

**Binding Effect:**

26.01 This contract is binding on the parties hereto, their heirs, successors and assigns.

SIGNED this 02 day of February, A.D. 19 9/8.

ATTEST:

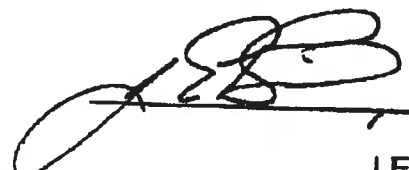
By: 

DON SHEFFY, City Secretary

THE CITY OF DIMMITT, TEXAS

By: 

WAYNE COLLINS, Mayor  
LESSOR

, Trustee  
LESSEE



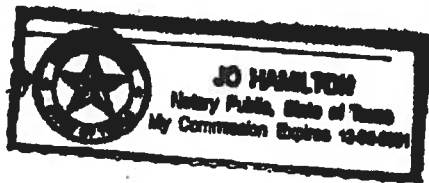
THE STATE OF TEXAS )

COUNTY OF CASTRO )

This instrument was acknowledged before me on the 02 day of February, A.D. 1998 by WAYNE COLLINS, Mayor, for the CITY OF DIMMITT, TEXAS, a municipal corporation, on behalf of said corporation.

My commission expires:

[Signature]  
Notary Public, State of Texas



THE STATE OF TEXAS )

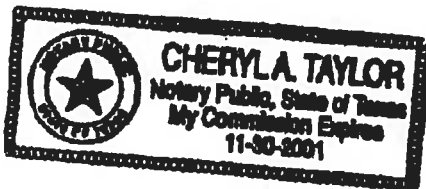
COUNTY OF CASTRO )

This instrument was acknowledged before me on the 5<sup>th</sup> day of February, 1998 by John Eric Bivans

My commission expires:

11-30-2001

Cheryl A. Taylor  
Notary Public, State of Texas



**EXHIBIT "A"**

**LESSEE'S PROPERTY DESCRIPTION**

## Candice Calhoun

---

**From:** Paul Krueger <PKrueger@Parkhill.com>  
**Sent:** Wednesday, July 23, 2025 4:38 PM  
**To:** Candice Calhoun; djackson@cityofdimmitt.org  
**Cc:** Kyra Heinisch  
**Subject:** RE: Application to Renew Permit No. WQ0010080001 (City of Dimmitt) - Notice of Deficiency  
**Attachments:** TCEQ Response Final.pdf

Good Afternoon,

Please find attached response to the NOD for Dimmitt's WWTP permit renewal application. Feel free to reach out if you 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:** Wednesday, July 9, 2025 2:07 PM  
**To:** djackson@cityofdimmitt.org  
**Cc:** Paul Krueger <PKrueger@Parkhill.com>  
**Subject:** Application to Renew Permit No. WQ0010080001 (City of Dimmitt) - Notice of Deficiency  
**Importance:** High

Good afternoon, Mr. Jackson,

The attached Notice of Deficiency (NOD) letter dated July 9, 2025, requests additional information needed to declare the application administratively complete. Please send complete response no later than July 23, 2025.

Please let me know if you have any questions.

Regards,



**Candice Courville**  
License & Permit Specialist  
ARP Team | Water Quality Division  
Texas Commission on Environmental  
Quality  
512-239-4312  
[candice.calhoun@tceq.texas.gov](mailto:candice.calhoun@tceq.texas.gov)

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

---

July 23, 2025

Ms. Candice Calhoun  
Applications Review and Processing Team (MC148)  
Water Quality Division  
Texas Commission of Environmental Quality  
P.O. Box 13087  
Austin, TX 78711-3087

Re: Application to Renew Permit No.:WQ0010080001  
Applicant Name: City of Dimmitt (CN600249668)  
Site Name: City of Dimmitt WWTP (RN101920874)  
Type of Application: Renewal

Dear Ms. Calhoun:

We have received the Notice of Deficiency letter on the above referenced application in your e-mail dated July 9, 2025 and provide the following response.

1. *Comment: Our records indicate that an original paper copy of the application was not received. The original paper copy and electronic copy are both required. Please submit the original paper copy of the application to: Texas Commission on Environmental Quality, Water Quality Division, Application Review and Processing Team (MC 148), P.O. Box 13087, Austin, Texas 78711-3087.*

Response: The original paper copy has been mailed by the City of Dimmitt on July 11, 2025.

2. *Comment: The staff of the Texas Commission on Environmental Quality (TCEQ) has determined that City of Dimmitt is delinquent regarding the payment of fees and/or penalties. Please see Attachment 1 for more information on these fees.*

Response: A copy of the check for these fees has been attached to this response under Attachment 1.

3. *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 \$1,615.00. 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 fee of \$1,615.00 has been sent with the original paper copy of the application that was mailed on July 11, 2025. Please see Attachment 1 for a copy of the complete payment. The payment check also contains delinquent fees noted in comment 2.

4. *Comment: Core Data Form, Section V: The Core Data Form was not signed or dated. Please provide a signed and dated CDF.*

Response: Please see Attachment 2 for the updated Core Data Form with the authorized signature.

5. *Comment: Section 9, Item E, of the administrative report: The Landowner listed does not match the Lessee listed on the lease agreement. Please provide an updated section to correct the Landowner or provide an updated lease agreement between the applicant and the landowner.*

Response: Please see Attachment 3 for the updated Lease Agreement.

6. Comment: *Section 14 of the administrative report: The signature page was not signed, dated or notarized. Please provide a signed, dated and notarized signature page.*

Response: Please see Attachment 4 for the updated notarized signature page.

7. Comment: *USGS Topographic Map: The USGS map provided did not include the applicant/landowner's property boundary. Please provide a revised USGS map to include the requested information. If the applicant/landowner's property boundary is one in the same with the facility boundaries, please label it as such.*

Response: Please see Attachment 5 for the updated USGS Map.

8. 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.*

*APPLICATION. City of Dimmitt, P.O. Box 146, Dimmitt, Texas 79027, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010080001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 750,000 gallons per day via surface irrigation of 477 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 0.25 mile north of the intersection of County Road 514 and County Road 614, the city of Dimmitt, in Castro County, Texas 79027. TCEQ received this application on July 7, 2025. The permit application will be available for viewing and copying at Dimmitt City Hall, main entrance, 200 East Jones Street, Dimmitt, in Castro 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=-102.298595,34.559331&level=18>*

Response: Please revise the location description sentence to: "The domestic wastewater treatment facility and disposal area are located approximately 0.25 mile north of the intersection of County Road 514 and County Road 614, in Castro County, Texas 79027."

Thank you for reviewing the submitted application. If you have any questions or would like to discuss further, please feel free to call me at 806.473.3715.

Sincerely,

PARKHILL

By Paul Krueger  
Paul Krueger, PE  
Civil Engineer

PSK/pp/acs  
Enclosures

Attachment 1 - Payment Check  
Attachment 2 - Core Data Form  
Attachment 3 - Lease Agreement  
Attachment 4 - Administrative Report Signature Page  
Attachment 5 - USGS Map

Attachment 1:  
Payment Check

Attachment 2:

Core Data Form





# TCEQ Core Data Form

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

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
<b>2. Customer Reference Number</b> (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number</b> (if issued)
CN 600249668		RN 101920874

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Dimmitt					
<b>7. TX SOS/CPA Filing Number</b>		<b>8. TX State Tax ID</b> (11 digits)		<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>				<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
<b>15. Mailing Address:</b>					
PO Box 146					
City	Dimmitt	State	TX	ZIP	79027
				ZIP + 4	
<b>16. Country Mailing Information</b> (if outside USA)				<b>17. E-Mail Address</b> (if applicable)	
				djackson@cityofdimmitt.org	

<b>18. Telephone Number</b> ( 806 ) 647-2155	<b>19. Extension or Code</b>	<b>20. Fax Number (if applicable)</b> (   ) -
---	------------------------------	--

### SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected, a new permit application is also required.) <input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.) City of Dimmitt Wastewater Treatment Plant								
<b>23. Street Address of the Regulated Entity:</b>  (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
<b>24. County</b>	Castro							

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

<b>25. Description to Physical Location:</b>	West side of County Road 515, approximately 0.25 miles north of the intersection of County Road 514 and County Road 614								
<b>26. Nearest City</b>	Dimmitt				<b>State</b>	Tx		<b>Nearest ZIP Code</b>	79027
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>									
<b>27. Latitude (N) In Decimal:</b>		34.5606			<b>28. Longitude (W) In Decimal:</b>		-102.2983		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
34	33	38	102	17	54				
<b>29. Primary SIC Code</b> (4 digits)		<b>30. Secondary SIC Code</b> (4 digits)		<b>31. Primary NAICS Code</b> (5 or 6 digits)		<b>32. Secondary NAICS Code</b> (5 or 6 digits)			
4952				221320					
<b>33. What is the Primary Business of this entity?</b> (Do not repeat the SIC or NAICS description.) Treatment of Domestic Wastewater									
<b>34. Mailing Address:</b>	PO Box 146								
	City	Dimmitt	State	TX	ZIP	79027	ZIP + 4	0146	
<b>35. E-Mail Address:</b>		djackson@cityofdimmitt.org							
<b>36. Telephone Number</b>			<b>37. Extension or Code</b>			<b>38. Fax Number (if applicable)</b>			
( 806 ) 647-2155						(   ) -			

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

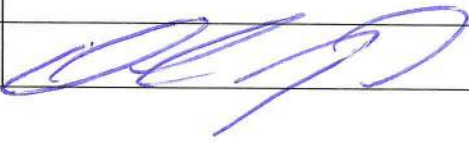
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
	WQ0010080001			

#### **SECTION IV: Preparer Information**

<b>40. Name:</b>	Paul Krueger		<b>41. Title:</b>	Civil Engineer
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>	
( 806 ) 473-2200		( ) -	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.

<b>Company:</b>	City of Dimmitt		<b>Job Title:</b>	City Manager	
<b>Name (In Print):</b>	Daniel Jackson			<b>Phone:</b>	( 806 ) 647- 2155
<b>Signature:</b>				<b>Date:</b>	07-10-2025

Attachment 3:  
Lease Agreement



## **FARM LEASE AND WATER DISPOSAL AGREEMENT**

### **Parties:**

**1.01** That, the **CITY OF DIMMITT, TEXAS**, acting by and through its duly authorized Mayor, ROGER MALONE, hereinafter referred to as "Lessor", and Kevin Acker, hereinafter referred to as "Lessee", for good and valuable consideration, have contracted as follows:

### **Property:**

**2.01** Lessor hereby leases to Lessee, for farming, the following described property, to-wit:

All of Surveys Number Eighteen (18) and Nineteen (19), Block M, Patent No. 528, Volume 25 and Patent No. 220, Volume 26, Castro County, Texas, SAVE AND EXCEPT 70.6 acres of land heretofore deed to the Western Warehouse Company by deed dated July 1, 1952, recorded in Volume 74, page 456, Deed Records, Castro County, Texas, and SAVE AND EXCEPT 12 acres of land conveyed by F. JACKSON and wife, IVEY JACKSON to the City of Dimmitt by deed dated May 21, 1965, recorded in Volume 116, page 521, Deed Records, Castro County, Texas.

### **Term:**

**3.01** Subject to the provisions hereinafter set forth, the primary term of this lease shall be for the crop years 2021, 2022, 2023, 2024, and 2025, commencing on the effective date of this contract, being October 1, 2020 and terminating on July 30, 2025 (herein referred to as the Primary Term).

**3.02** Lessee shall not be reimbursed for land preparation or expenses incurred for any crop to be harvested after July 31, 2025. Lessee shall be allowed to harvest any existing wheat crop remaining in the field on July 30, 2025.

**3.03** The Lessor will in its sole discretion shall decide if the land is to be offered for farming purposes after June 30, 2015. Lessor, in its sole discretion, shall have the option to lease the above described property for farming purposes for the crop years after July 30, 2025.

### **Consideration:**

**4.01** The consideration to be paid to lessor by Lessee for each wheat crop year (August 1 through July 31) shall be **\$1,025.00** cash to be paid by Lessee to Lessor upon execution of this agreement, or July 15 of any subsequent year this agreement is in full force and effect. Failure to pay the cash rental timely shall be an event of default under this agreement.

**4.02** Additional consideration to be paid to Lessor by Lessee shall be the agreement between Lessor and Lessee for the maintenance of the water pipeline and for the extraction of surface water from the playa lake contained within the boundaries of the above described property in accordance with the provisions of this agreement.

### **Reservation For Waste Disposal:**

**5.01** The above described property was originally purchased by Lessor as a location for solid waste disposal and sewer disposal. Lessor may be required to utilize additional portions of the property for solid waste and/or sewer disposal during the term of this agreement. In the event Lessor shall require additional acreage for solid waste and/or sewer disposal during the term of this agreement, Lessee shall be reimbursed for all out-of-pocket expenses incurred in the raising of those agricultural crop acreage which they are prevented from harvesting because of such taking. Documentation of all expenses to be reimbursed shall be forwarded to Lessor who will reimburse Lessee for all reasonable expenses at the time of relinquishment of possession by Lessee. Lessor shall be responsible only for all reasonable and necessary out-of-pocket expenses incurred by Lessee in land preparation, planting, and cultivating of that crop acreage which will not be harvested by Lessee. No reimbursement shall be paid to Lessee for crop acreage which is harvested or utilized for grazing by Lessee. No reimbursement shall be paid for crops which are harvested. Lessor shall, to the extent possible, allow Lessee to harvest acreage with growing crops.

### **Exclusive Rights**

**6.01** Lessor hereby grants to Lessee the exclusive and express right to extract all surface water from City's property, above described, placed thereon by reason of natural run-off from the surrounding lands and/or from the discharge of the City of Dimmitt's sewer treatment plant. Lessor further grants to Lessee the right to extract water through the existing irrigation well located in the northern portion of the City's property, either back into the playa lake for storage or into the pipeline for farming purposes.

**6.02** Lessee covenants and agrees that Lessor is the owner of the real estate described on Exhibit "A" attached hereto and incorporated herein for all purposes as if fully copied. All covenants and agreement contained herein concerning Lessee's property shall be deemed and interpreted to refer to the property described on the attached Exhibit "A".

### **Maintenance of Playa Lake Water Level**

**7.01** At the time of making this agreement, there presently exists on the southern part of the City's property a discharge pipe extending from the City of Dimmitt sewer treatment plant. From and after the execution of this agreement and the assumption of duties by Lessee with regard to the duties and responsibilities contained herein, to be performed by Lessee, the playa lake water level shall be maintained at a level measuring 3 feet below the bottom rim of the discharge pipe above described. So long as the playa lake water level is maintained at or below this level (3 feet below the rim of the discharge pipe) Lessee may extract all surface water from the playa lake at Lessee's discretion.

**7.02** **At such times as the playa lake may be a level higher than this predetermined mark (3 feet below the bottom rim of the discharge pipe) then at such times it shall be mandatory**



for Lessee to extract water from the playa lake at a minimum rate of 1,000 gallons per minute until such time as the water level in said playa lake shall have receded and declined to the predetermined mark of 3 feet below the bottom rim of the discharge pipe.

**7.03** All water extracted from the playa lake shall be discharged upon Lessee's property, and on the farmland of Lessor described in Paragraph 2.01.

**Maintenance of Water Pipeline**

**8.01** Lessee shall be solely responsible to maintain the 10 inch water pipeline located on the East side of the above described property and within the right-of-way of the county road adjacent and North of said property at Lessee's sole cost and expense. The pipeline shall be maintained in good condition so that such pipeline shall be capable of transporting 1,000 gallons per minute at all times.

**Maintenance of Pumping Station**

**9.01** Lessee shall maintain an electrical pumping unit at the beginning point of the 10 inch water pipeline above described. The pump shall be capable of extracting 1,000 gallons per minute from the playa lake. Lessee shall bear all costs of maintenance of such pumping facilities. Lessee shall be solely responsible for all energy costs with regard to extracting any surface water from Lessor's property.

**Maintenance of Irrigation Well and Underground Distribution System**

**10.01** As heretofore stated, Lessee shall have the use of the existing irrigation well located on the northern portion of the leased property. Lessee shall, at his Lessee's sole cost and expense, utilize the irrigation well as located in its present condition. In the event Lessee desires not to use the submersible pump presently located within said well, then in such event, Lessee shall, upon removing the pump, shaft, and appurtenances thereto, deliver all such materials as removed from the well to Lessor at such places as Lessor may designate. The cost of extracting water through the irrigation well shall be the sole responsibility of Lessee and any repairs, replacements and/or maintenance of the irrigation well and/or the underground distribution system, including risers and vents, shall be at the sole cost of Lessee.

**Compliance With Rules and Regulations**

**11.01** Lessee hereby covenants and warrants to comply with all rules and regulations of the TEXAS COMMISSION ON ENVIRONMENTAL QUALITY in connection with the pumping and use of the irrigation water and the utilization and use of the surface water received from Lessor's property.

**11.02** Lessee further covenants and agrees to comply with all rules and regulations as may be promulgated by the TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, as well as any other State, Federal or Local Governmental Regulatory Agency with regard to the utilization of underground and/or surface water to be used in connection with this agreement. Lessee and/or Lessor shall have the right to terminate this agreement if it should be determined by a governmental agency that the activities created hereunder are prohibited and such prohibition is beyond the control of Lessee and/or Lessor.

### **Water Quality and Quantity**

**12.01** Lessor further makes no covenant or warranty as to the quantity or quality of the water extracted by use of the irrigation well or the surface water that may be extracted from the playa lake. Lessor does covenant and agree that all sewer water discharged into the playa lake located on said property shall have first been treated by the City of Dimmitt, Texas, sewer treatment facilities and/or procedures. Lessor further covenants and warrants to use the full extent of its police powers in enforcing all rules and regulations with regard to the discharge of hazardous materials into the sewer system and/or the dumping of hazardous materials into the playa lake located on Lessor's property.

### **Improvements**

**13.01** The improvements located on the above described property, available to Lessee for his use during the term of this lease, are the domestic watering system located on the western portion of the above described property, the barn, corrals and perimeter fences surrounding the above described property. Lessee shall, at their sole cost and expense, use such domestic watering system as he deems necessary, the Lessee being solely responsible financially and otherwise for the repair and/or maintenance of said domestic watering system and all property structures.

### **Farming Practices:**

**14.01** Lessee shall use accepted conservation methods in preventing soil erosion by wind and water.

**14.02** Lessee agrees to plow, plant, irrigate, cultivate, and harvest in a manner attendant to good husbandry.

**14.03** Lessee agrees to make a concentrated effort to control and/or eradicate johnson grass, bind weed, and other types of noxious weeds from the land herein leased. The cost of controlling such weeds shall be borne by Lessee.

### **Government Payments:**

**15.01** All government payments connected with the farming of said land during the term of this lease for payment of crop deficiencies and/or disasters shall be the property of Lessee and shall be paid directly to Lessee. In connection therewith, Lessee covenants and agrees to operate this farm so that it is in full compliance with any mandatory government programs that may be in effect now or at any future time. If any such government program contains an option, exercisable by the operator of the farm, Lessee, in his sole discretion, shall have the right to choose which portions of the government programs and which options he selects to operate under.

### **Indemnification by Lessee:**

**16.01** Lessee shall indemnify Lessor against and save Lessor harmless from any and all loss, damage, and from all and all liability, cost, and expense of every kind or nature arising during the term of this lease or any renewal and extension hereof from:



- A. Default or negligence of Lessee or anyone claiming under Lessee;
- B. Failure of Lessee to perform or observe any covenant or condition which Lessee is required to perform or observe otherwise;
- C. Any occurrence on or about the land herein leased which occurrence is caused by Lessee, his agents or employees;

**16.02** Lessee shall indemnify Lessor against and save Lessor harmless from any and all claims, demands, damages, costs, and expenses of every kind or nature arising from the use of any water extracted, whether voluntarily extracted or mandatorily extracted by reason of this agreement and placed upon Lessee's property, and/or the escape of such water from the pipeline or from Lessee's property, specifically and without limitation by enumeration, for damages to land or crops and/or loss of profits therefrom.

**Default by Lessee:**

**17.01.** Lessee shall be in default, and Lessor shall have the right to terminate this lease agreement if:

- a. any execution or any other writ of process shall be issued in any action or proceeding against the Lessee, whereby, the above described property, personal or real, may be seized, taken, or detained; or,

- b. a proceeding in bankruptcy, receivership, or insolvency shall be instituted by or against the Lessee or his property; or,

- c. the Lessee shall enter into any arrangement or composition with his creditors, or if Lessee, with regard to any item or items of personal property; or,

- d. the Lessee, fails to observe, keep, or perform any of the provisions of this lease required to be observed, kept, or performed by the Lessee.

**Termination by Lessor:**

**18.01** If this lease is terminated by Lessor, and Lessee has unharvested crops located on the above described premises:

- a. If the crop is not to be harvested, Lessee shall be reimbursed for all reasonable out-of-pocket expenses incurred in the production of the existing crop acreage which they are prevented from harvesting because of such termination;

- i. Documentation of all expenses to be reimbursed shall be forwarded to Lessor who will reimburse Lessee for all reasonable expenses at the time of relinquishment of possession by Lessee; and,

- ii. Lessor shall be responsible only for all reasonable and necessary out-of-pocket expenses incurred by Lessee in land preparation, planting, and cultivating of only existing crop acreage which will not be harvested by Lessee.

- b. If the crop is to be harvested, Lessor shall see that the crop is harvested in a timely manner and, after recovering all of Lessor's expenses incurred in caring for the crop and harvesting, the balance of the proceeds received from the sale of the harvested crop shall be paid to Lessee. All marketing decisions shall be at the sole discretion of Lessor.

**Oil & Gas Lease by Lessor:**

**19.01** It is understood and agreed that this lease covers farming and grazing rights only, and Lessor shall not be prohibited from executing, acknowledging, and delivering oil, gas, and other mineral leases covering the lands herein leased, nor from granting easements over and across the lands herein leased. In the event the land is leased for oil, gas, or other minerals and exploratory operations under the terms of such oil, gas, and mineral leases are commenced and damages paid for growing crops, such damages shall be shared between Lessor and Lessee in the same proportion as rental as set forth above.

**Waiver:**

**20.01** No covenant or condition of this lease may be waived except by the written consent of Lessor. Forbearance or indulgence by Lessor in any regard whatsoever shall not constitute a waiver of the covenant or condition to be performed by Lessee to which the same may apply, and until complete performance by Lessee of any covenant or condition, Lessor shall be entitled to invoke any remedy available to Lessor under this lease or by law or in equity despite said forbearance or indulgence.

**Venue:**

**21.01** This lease shall be performed in Castro County, Texas, and is to be interpreted under and in accordance with the laws of the State of Texas.

**Attorney's Fees:**

**22.01** The warranties and representations made herein by the parties shall be deemed to apply as of the time of execution of this lease and shall be construed as continuing warranties and representations and agreements which shall survive the signing unless otherwise provided for herein. In the event either party is required to employ an attorney to enforce the provisions of this agreement by reason of the alleged default of the other party, and the alleged defaulting party is given written notice of said default, and does not correct said default within a reasonable period of time, after being given written notice to do so, then the prevailing party in any Court litigation, by reason of said default, shall be entitled to be awarded reasonable attorney's fees and costs by reason of said action.

**Entire Agreement:**

**23.01** This agreement, together with the contemporaneously executed water agreement, embodies the entire agreement and understanding between Lessee and Lessor, and each hereby covenants that there are no other arrangements, memoranda or agreements, representations, warranties or understandings, oral or written, between Lessee and Lessor with respect to the subject matter of this agreement.

**Amendment/ Assignment:**

**24.01** It is agreed that the terms and provisions of this contract cannot be altered, except by instrument, in writing, said instrument being first approved by the City Council of the City of

Dimmitt, Texas.

**24.02** This lease shall not be assigned in whole or in part without the consent of said City Council in writing being first had and obtained, which consent will not be unreasonably withheld.

**Notices**

**25.01** Any notices or other communications required or permitted by this agreement shall be delivered personally or sent by registered or certified mail, postage prepaid:

To Lessor:

City Manager  
City of Dimmitt, Texas  
201 East Jones  
Dimmitt, Texas 79027

To Lessee:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

or, at any other address furnished in writing by either party to the other, and shall be deemed to have been given as of the date the notice is personally delivered or deposited in the United States mail.

**Binding Effect:**

**26.01** This contract is binding on the parties hereto, their heirs, successors and assigns.

**SIGNED this \_\_\_\_\_ day of October, A.D. 2020.**

ATTEST:

THE CITY OF DIMMITT, TEXAS

By: Karen McGuire  
KAREN MCGUIRE, City Secretary

By: Roger Malone  
ROGER MALONE, Mayor  
LESSOR

\_\_\_\_\_  
LESSEE



Attachment 4:

Administrative Report Signature Page

## Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010080001

Applicant: City of Dimmitt

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): Scott Sheffy

Signatory title: Mayor

Signature: \_\_\_\_\_

(Use blue ink)

Date: \_\_\_\_\_

7-10-25

Subscribed and Sworn to before me by the said \_\_\_\_\_

Scott Sheffy

on this 10th day of July, 20 25.

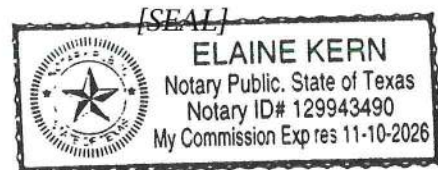
My commission expires on the 10th day of November, 20 26.

Elaine Kern

Notary Public

Castro

County, Texas



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

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

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

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

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

### CERTIFICATION:

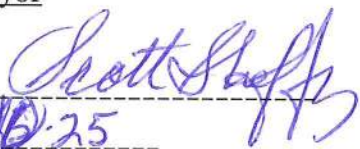
I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: Scott Sheffy

Title: Mayor

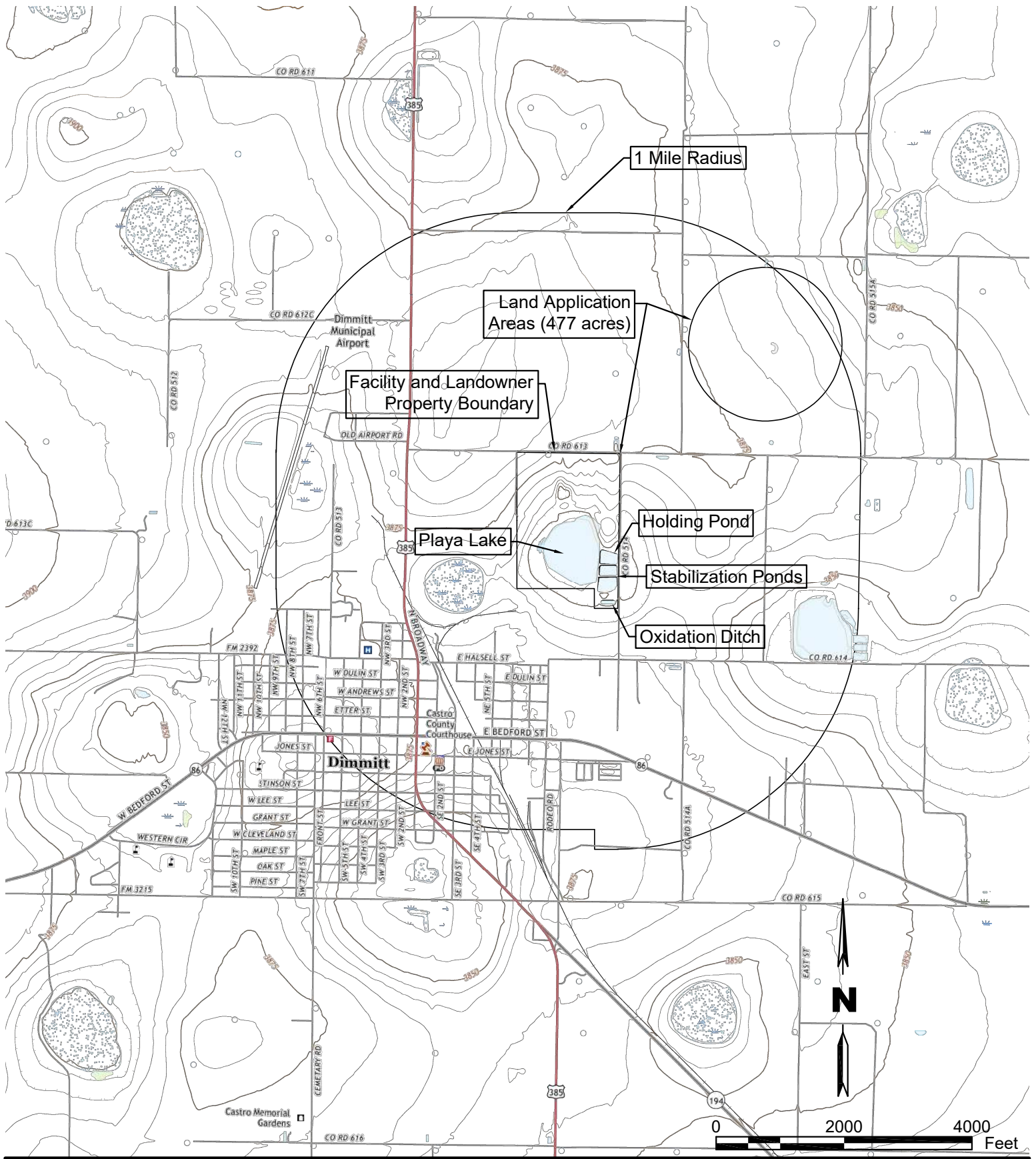
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

  
7-16-25

Attachment 5:

USGS Map



# City of Dimmitt Wastewater Treatment Plant Renewal

City of Dimmitt  
P.O. Box 146  
Dimmitt, TX 79027

**Parkhill**

Parkhill.com

USGS Map

Issue:	Renewal
Date:	07/22/2025
Project No:	45427.25
Sheet:	1 OF 1