# Technical 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. Second notice (NAPD-Notice of Preliminary Decision)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet

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 $BOD_5$. Domestic wastewater will be treated by 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. Search the database using the permit number for this application, which is provided at the top of this notice.

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

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

Further information may also be obtained from City of 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

**NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR WATER QUALITY LAND APPLICATION PERMIT FOR MUNICIPAL WASTEWATER**

**RENEWAL**

**PERMIT NO. WQ0010080001**

City of Dimmitt, P.O. Box 146, Dimmitt, Texas 79027, has applied to the Texas Commission on Environmental Quality (TCEQ) for renewal of TCEQ Permit No. WQ0010080001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 750,000 gallons per day via surface irrigation of 477 acres of non-public access agricultural land. This permit will not authorize the discharge of pollutants into water in the state. TCEQ received this application on July 7, 2025.

The wastewater treatment facility and disposal site are located approximately 0.25 mile north of the intersection of County Road 514 and County Road 614, in Castro County, Texas 79027. The wastewater treatment facility and disposal site are located in the drainage basin of Mackenzie Reservoir in Segment No. 0228 of the Red River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is 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

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Dimmitt City Hall, main entrance, 200 East Jones Street, Dimmitt, in Castro County, Texas 79027. 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.

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application.**] The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds 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 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 a contested case hearing or reconsideration of the Executive Director's decision**. A contested case hearing is a legal proceeding similar to a civil trial in a 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.**

**EXECUTIVE DIRECTOR ACTION**. The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

**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.

**All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at** www.tceq.texas.gov/goto/comment **within 30 days from the date of newspaper publication of this notice.**

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

**AGENCY CONTACTS AND INFORMATION.** Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, 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. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

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

Issuance Date: September 24, 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 | ☒ | ☐ | Original USGS Map | ☒ | ☐ |
| Administrative Report 1.1 | ☐ | ☒ | Affected Landowners Map | ☐ | ☒ |
| SPIF | ☐ | ☒ | Landowner Disk or Labels | ☐ | ☒ |
| Core Data Form | ☒ | ☐ | Buffer Zone Map | ☐ | ☒ |
| Summary of Application (PLS) | ☒ | ☐ | Flow Diagram | ☒ | ☐ |
| Public Involvement Plan Form | ☐ | ☒ | Site Drawing | ☒ | ☐ |
| Technical Report 1.0 | ☒ | ☐ | Original Photographs | ☐ | ☒ |
| Technical Report 1.1 | ☐ | ☒ | Design Calculations | ☐ | ☒ |
| Worksheet 2.0 | ☐ | ☒ | Solids Management Plan | ☐ | ☒ |
| Worksheet 2.1 | ☐ | ☒ | Water Balance | ☐ | ☒ |
| Worksheet 3.0 | ☒ | ☐ | | | |
| Worksheet 3.1 | ☐ | ☒ | | | |
| Worksheet 3.2 | ☐ | ☒ | | | |
| Worksheet 3.3 | ☐ | ☒ | | | |
| Worksheet 4.0 | ☐ | ☒ | | | |
| Worksheet 5.0 | ☐ | ☒ | | | |
| Worksheet 6.0 | ☒ | ☐ | | | |
| Worksheet 7.0 | ☐ | ☒ | | | |

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

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

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

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

Minor Amendment (for any flow) $150.00 ☐

**Payment Information:**

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

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

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional 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

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

**e.** For amendments or modifications, describe the proposed changes: 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-Applicant Information (Instructions Page 26)

**A. The owner of the facility must apply for the permit.**

What is the Legal Name of the entity (applicant) applying for this permit?

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

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

Click to enter text.

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

### 2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

## Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 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). **W*ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

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

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

| Pollutant | Average Conc. | Max Conc. | No. of Samples | Sample Type | Sample Date/Time |
|---|---|---|---|---|---|
| $CBOD_5$, mg/l | 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@19 c | 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 |
| *E.coli* (CFU/100ml) freshwater | x | x | 1 | Grab | 04/23/2025 @8:45am |
| Entercocci (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 ($CaCO_3$)*, mg/l | N/A | N/A | N/A | N/A | N/A |

*TPDES permits only
†TLAP permits only

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

| Pollutant | Average Conc. | Max Conc. | No. of Samples | Sample Type | Sample Date/Time |
|---|---|---|---|---|---|
| Total Suspended Solids, mg/l | N/A | N/A | N/A | N/A | N/A |
| Total Dissolved Solids, mg/l | N/A | N/A | N/A | N/A | N/A |
| pH, standard units | N/A | N/A | N/A | N/A | N/A |
| Fluoride, mg/l | N/A | N/A | N/A | N/A | N/A |
| Aluminum, mg/l | N/A | N/A | N/A | N/A | N/A |

| Pollutant | Average Conc. | Max Conc. | No. of Samples | Sample Type | Sample Date/Time |
|---|---|---|---|---|---|
| Alkalinity ($CaCO_3$), mg/l | N/A | N/A | N/A | N/A | N/A |

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

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

**B. WWTP's 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 |
| Choose an item. | Choose an item. | Choose an item. | | Choose an item. | Choose an item. |
| Choose an item. | Choose an item. | Choose an item. | | Choose an item. | Choose an item. |

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

### D. Disposal site

Disposal site name: 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 | ☐ Yes | ☒ No |
| Marketing and Distribution of Biosolids | ☐ Yes | ☒ No |
| Sludge Surface Disposal or Sludge Monofill | ☐ Yes | ☒ No |
| Temporary storage in sludge lagoons | ☐ Yes | ☒ No |

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

☐ Yes ☐ No

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

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

### A. Location information

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

- Original General Highway (County) Map:

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

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

  **Attachment**: Click to enter text.
- Site map:

  **Attachment**: Click to enter text.

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

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

**Attachment**: Click to enter text.

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

Click to enter text.

**B. Temporary storage information**

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

### C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

### D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  **Attachment**: Click to enter text.

### E. Groundwater monitoring

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

☐ Yes ☐ No

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

**Attachment:** Click to enter text.

## Section 12. Authorizations/Compliance/Enforcement (Instructions Page 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[1].

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

***1. Municipally incorporated areas***

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

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

☐ Yes ☐ No ☐ Not Applicable

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

**If yes**, attach correspondence from the city.

**Attachment:** Click to enter text.

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

**Attachment:** Click to enter text.

***2. Utility CCN areas***

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

☐ Yes ☐ No

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

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

**Attachment**: Click to enter text.

*3. Nearby WWTPs or collection systems*

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

☐ Yes ☐ No

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

**Attachment**: Click to enter text.

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

**Attachment**: Click to enter text.

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

**Attachment:** Click to enter text.

## Section 2. Proposed Organic Loading (Instructions Page 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 $BOD_5$ Concentration in mg/l: Click to enter text.

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

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

Click to enter text.

### B. Proposed organic loading

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

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

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

## Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 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 it Section 2. **If yes**, provide the following:

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

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

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

**Attachment**: Click to enter text.

## Section 2. Discharge into Tidally Affected Waters (Instructions Page 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
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

**B. Waterbody uses**

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

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

**C. Waterbody aesthetics**

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

## Section 1. General Information (Instructions Page 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**

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

## Section 3. Summarize Measurements (Instructions Page 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:

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

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

**For existing authorizations, provide Registration Number:** N/A

## Section 2. Land Application Site(s) (Instructions Page 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 $BOD_5$ loading rate, in lbs $BOD_5$/acre/day: Click to enter text.

Design application frequency:

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

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

**Attachment:** Click to enter text.

## Section 2. Edwards Aquifer (Instructions Page 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 |

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

| Pollutant | AVG Effluent Conc. (µg/l) | MAX Effluent Conc. (µg/l) | Number of Samples | MAL (µg/l) |
|---|---|---|---|---|
| Endosulfan II (beta) | | | | 0.02 |
| Endosulfan Sulfate | | | | 0.1 |
| Endrin | | | | 0.02 |
| 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 |

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

### *Table 4.0(2)E - Pesticides*

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

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

## Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

### *Table 4.0(2)F – Dioxin/Furan Compounds*

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

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

## F. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

# WORKSHEET 7.0

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

**CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM**

Submit the completed form to:

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

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

## Section 1. General Information (Instructions Page 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 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

# Appendix A

# Core Data Form

TCEQ Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

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

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

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

| **2. Customer Reference Number** *(if issued)* | Follow this link to search for CN or RN numbers in Central Registry** | **3. Regulated Entity Reference Number** *(if issued)* |
|---|---|---|
| **CN 600249668** | | **RN 101920874** |

## SECTION II: Customer Information

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

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

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

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

City of Dimmitt

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

**11. Type of Customer:**

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

**12. Number of Employees**

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

**13. Independently Owned and Operated?**

☐ **Yes** ☐ **No**

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

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

**15. Mailing Address:**

PO Box 146

| **City** | Dimmitt | **State** | TX | **ZIP** | 79027 | **ZIP + 4** | |
|---|---|---|---|---|---|---|---|

| **16. Country Mailing Information** *(if outside USA)* | **17. E-Mail Address** *(if applicable)* |
|---|---|
| | djackson@cityofdimmitt.org |

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 806 ) 647-2155 | | ( ) - |

## SECTION III: Regulated Entity Information

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

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

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

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

City of Dimmitt Wastewater Treatment Plant

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

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

| | | | | | |
|---|---|---|---|---|---|
| **25. Description to Physical Location:** | West side of County Road 515, approximatly 0.25 miles north of the intersection of County Road 514 and County Road 614 | | | | |
| **26. Nearest City** | | | **State** | **Nearest ZIP Code** | |
| Dimmitt | | | Tx | 79027 | |

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

| | | | | | |
|---|---|---|---|---|---|
| **27. Latitude (N) In Decimal:** | 34.5606 | | **28. Longitude (W) In Decimal:** | -102.2983 | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 34 | 33 | 38 | 102 | 17 | 54 |

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

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

Treatment of Domestic Wastewater

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **34. Mailing Address:** | **PO Box 146** | | | | | | | |
| | **City** | **Dimmitt** | **State** | **TX** | **ZIP** | **79027** | **ZIP + 4** | **0146** |
| **35. E-Mail Address:** | **djackson@cityofdimmitt.org** | | | | | | | |

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

| | | | | |
|---|---|---|---|---|
| ☐ Dam Safety | ☐ Districts | ☐ Edwards Aquifer | ☐ Emissions Inventory Air | ☐ Industrial Hazardous Waste |
| | | | | |
| ☐ Municipal Solid Waste | ☐ New Source Review Air | ☐ OSSF | ☐ Petroleum Storage Tank | ☐ PWS |
| | | | | |
| ☐ Sludge | ☐ Storm Water | ☐ Title V Air | ☐ Tires | ☐ Used Oil |
| | | | | |
| ☐ Voluntary Cleanup | ☒ Wastewater | ☐ Wastewater Agriculture | ☐ Water Rights | ☐ Other: |
| | WQ0010080001 | | | |

## SECTION IV: Preparer Information

| **40. Name:** | Paul Krueger | **41. Title:** | Civil Engineer |
|---|---|---|---|

| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
|---|---|---|---|
| **(** 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.

| **Company:** | City of Dimmitt | **Job Title:** | City Manager | |
|---|---|---|---|---|
| **Name** *(In Print):* | Daniel Jackson | | **Phone:** | **(** 806 **)** 647- **2155** |
| **Signature:** | | | **Date:** | |

# 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 $BOD_5$. Domestic wastewater will be treated by 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 WQ-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 ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen ($NH_3$-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 ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen ($NH_3$-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.*

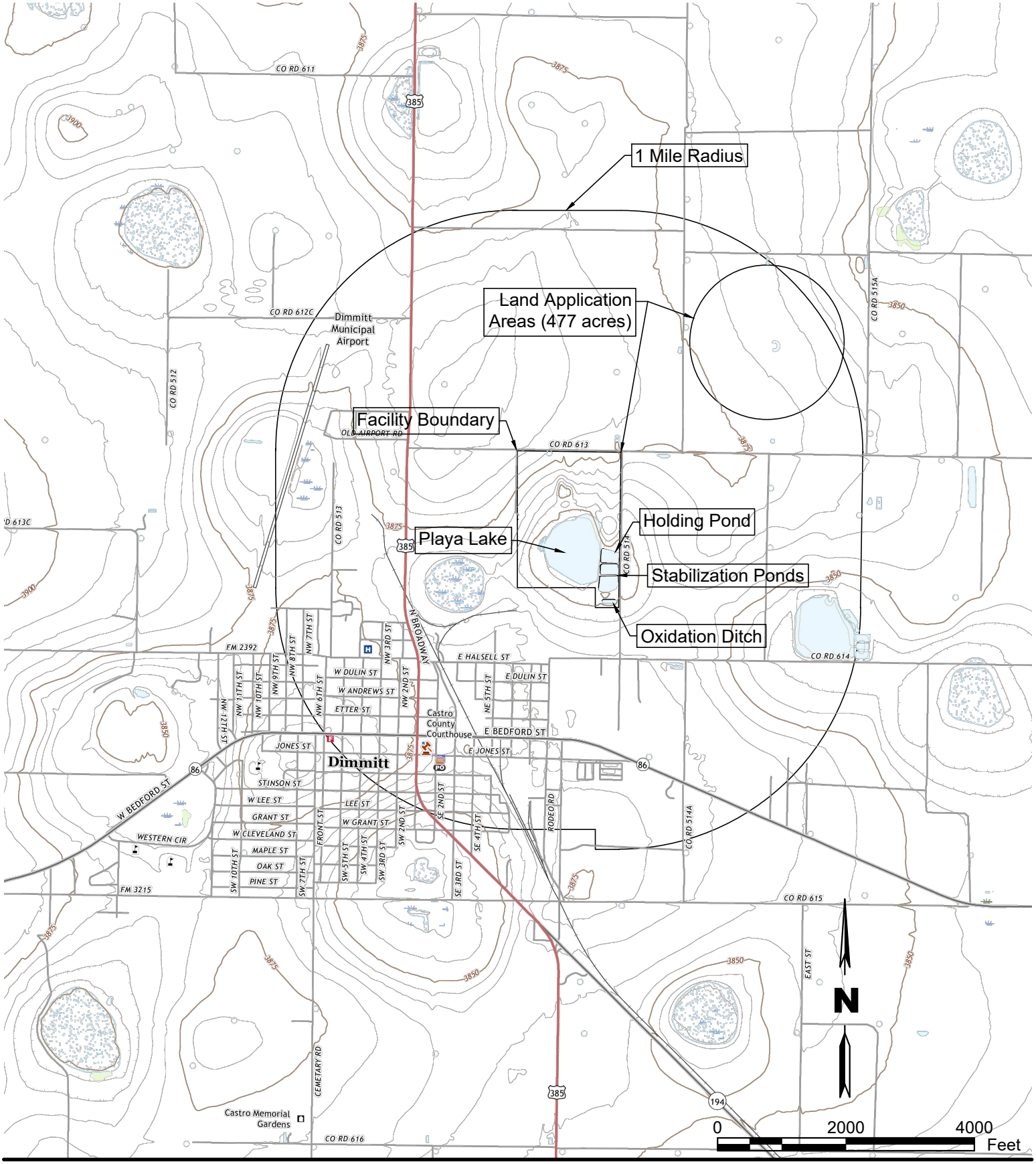
The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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 ($BOD_5$), 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

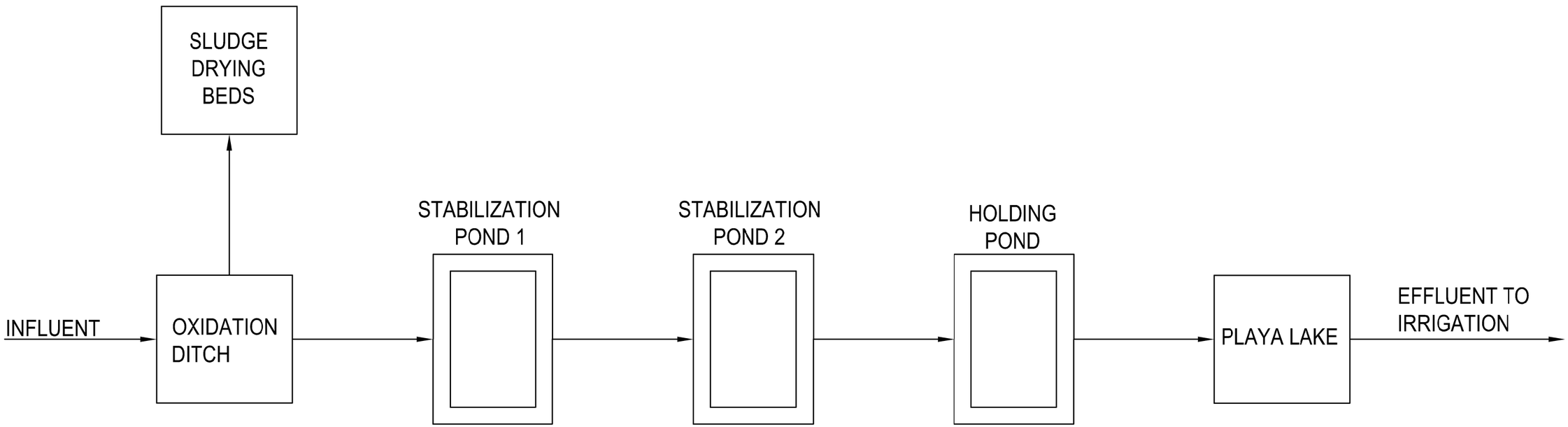
**USGS Map**

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

# Appendix D

# Flow Diagram

A:\2025\45427.25\03_DSGN\03_REP\WWTP PERMIT RENEWAL FORMS\APPENDIXES\APPENDIX D - FLOW DIAGRAM\FLOW DIARGRAM.DWG, 4/2/2025 9:39:54 AM, RHaden




# City of Dimmitt Wastewater Treatment Plant Flow Diagram

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

Parkhill
Parkhill.com

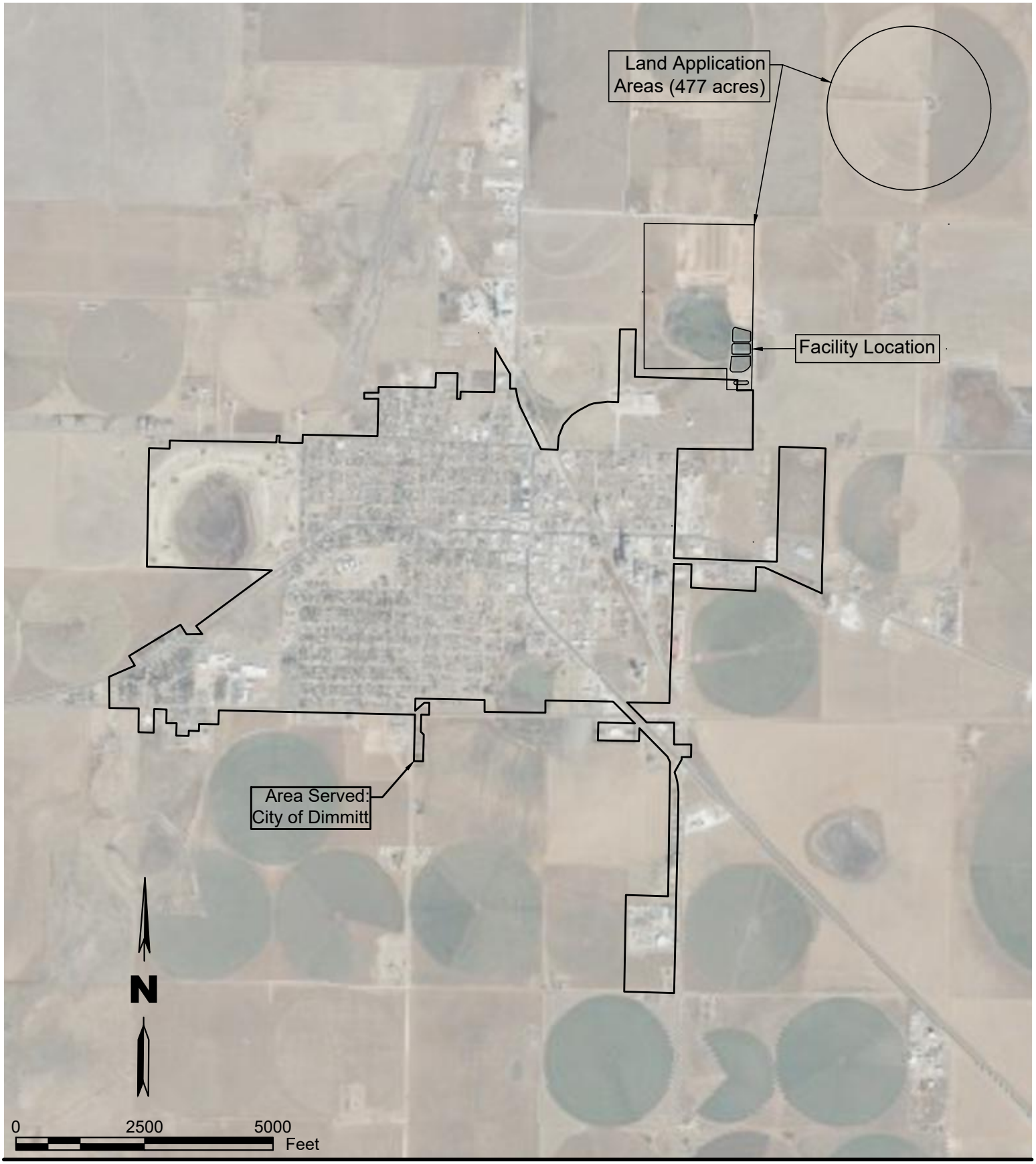
**Flow Diagram**

**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

**Site Map**

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

# Appendix F

# Pollutant Analysis

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



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:**


| Report Name | Description | Pages |
|---|---|---|
| 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 |
| | **Total Pages:** | 27 |


Email: Kilgore.ProjectManagement@spllabs.com

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

1

# SAMPLE CROSS REFERENCE

Project
1144711



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

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

Email: Kilgore.ProjectManagement@spllabs.com

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

# SAMPLE CROSS REFERENCE

Project
1144711



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-Cl 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

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

SPL The Science of Sure

1
2

## PHKG-P



*Project*
1144711

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

Printed: 06/02/2025

## RESULTS

### Sample Results

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

SPL The Science of Sure

1
2

# PHKG-P



Project
1144711

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

Printed: 06/02/2025

**2401512** **WW DIMMITT WWTP** Received: 04/23/2025

Non-Potable Water Collected by: Client Parkhill PO:
Taken: 04/22/2025 09:46:00

*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 |
|---|---|---|---|---|---|---|---|
| NELAC | **Oil and Grease (HEM)** | **5.91** | **mg/L** | 4.55 | | | 03 |

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

SPL The Science of Sure



## PHKG-P

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 — Parkhill — PO:
Taken: 04/22/2025 09:46:00

*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 |

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## PHKG-P

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 — Parkhill — PO:
Taken: 04/22/2025 09:46:00

*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 |

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## PHKG-P



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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** | | | | | | | | |

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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

Bill Peery, MS, VP Technical Services

# QUALITY CONTROL



## PHKG-P

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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 |

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### Duplicate

| Parameter | Sample | Result | Unknown | Unit | RPD | Limit% |
|---|---|---|---|---|---|---|
| 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

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

### LCS Dup

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

### Mat. Spike

| Parameter | Sample | Spike | Unknown | Known | Units | Recovery % | Limits % | File |
|---|---|---|---|---|---|---|---|---|
| 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

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| Ammonia Nitrogen | 1171641 | ND | 0.00336 | 0.020 | mg/L | 127537401 |

### CCV

| Parameter | Reading | Known | Units | Recover% | Limits% | File |
|---|---|---|---|---|---|---|
| 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

| Parameter | Sample | Result | Unknown | Unit | RPD | Limit% |
|---|---|---|---|---|---|---|

# QUALITY CONTROL



## PHKG-P

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*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**

| *Parameter* | *PrepSet* | *LCS* | *LCSD* | *Known* | *Limits%* | *LCS%* | *LCSD%* | *Units* | *RPD* | *Limit%* |
|---|---|---|---|---|---|---|---|---|---|---|
| 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**

| *Parameter* | *PrepSet* | *LCS* | *LCSD* | *Known* | *Limits%* | *LCS%* | *LCSD%* | *Units* | *RPD* | *Limit%* |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

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## PHKG-P


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Analytical Set 1172250 — EPA 351.2 2

**Blank**

| *Parameter* | *PrepSet* | *Reading* | *MDL* | *MQL* | *Units* | *File* |
|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 1171690 | ND | 0.00712 | 0.050 | mg/L | 127544376 |

**CCV**

| *Parameter* | *Reading* | *Known* | *Units* | *Recover%* | *Limits%* | *File* |
|---|---|---|---|---|---|---|
| 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**

| *Parameter* | *Sample* | *Result* | *Unknown* | *Unit* | *RPD* | *Limit%* |
|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen | 2401622 | 0.336 | 0.317 | mg/L | 5.82 | 20.0 |

**ICV**

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

**LCS Dup**

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

**Mat. Spike**

| *Parameter* | *Sample* | *Spike* | *Unknown* | *Known* | *Units* | *Recovery %* | *Limits %* | *File* |
|---|---|---|---|---|---|---|---|---|
| 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**

| *Parameter* | *PrepSet* | *Reading* | *MDL* | *MQL* | *Units* | *File* |
|---|---|---|---|---|---|---|
| Total Suspended Solids | 1172119 | ND | 2 | 2 | mg/L | 127541472 |

**ControlBlk**

| *Parameter* | *PrepSet* | *Reading* | *MDL* | *MQL* | *Units* | *File* |
|---|---|---|---|---|---|---|
| Total Suspended Solids | 1172119 | 0.0002 | | | grams | 127541471 |

**Duplicate**

| *Parameter* | *Sample* | *Result* | *Unknown* | *Unit* | *RPD* | *Limit%* |
|---|---|---|---|---|---|---|
| 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 |

## PHKG-P

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Printed 06/02/2025

**LCS**

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

**Standard**

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

Analytical Set 1172389 — EPA 1664B (HEM)

**Blank**

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

**ControlBlk**

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

**LCS**

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

**MS**

| Parameter | Sample | MS | MSD | UNK | Known | Limits | MS% | MSD% | Units | RPD | Limit% |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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**

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1172490 | ND | 5.00 | 5.00 | mg/L | 127547717 |

**ControlBlk**

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1172490 | -0.0002 | | | grams | 127547704 |

**Duplicate**

| Parameter | Sample | Result | Unknown | Unit | RPD | Limit% |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 2401414 | 640 | 650 | mg/L | 1.55 | 20.0 |

**LCS**

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

Analytical Set 1172507 — SM 2540 C-2020

**Blank**

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1172507 | ND | 5.00 | 5.00 | mg/L | 127547886 |

## PHKG-P

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

Project 1144711

Printed 06/02/2025

### ControlBlk

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 1172507 | 0.0001 | | | grams | 127547873 |

### Duplicate

| Parameter | Sample | Result | Unknown | Unit | RPD | Limit% |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 2401512 | 1210 | 1180 | mg/L | 2.51 | 20.0 |

### LCS

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

Analytical Set 1171822 — EPA 300.0 2.1

### Blank

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| 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

| Parameter | PrepSet | Reading | MDL | MQL | Units | File |
|---|---|---|---|---|---|---|
| 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

| Parameter | Reading | Known | Units | Recover% | Limits% | File |
|---|---|---|---|---|---|---|
| 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

| Parameter | PrepSet | LCS | LCSD | Known | Limits% | LCS% | LCSD% | Units | RPD | Limit% |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

# QUALITY CONTROL



## 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 |

## 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-Cl 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

# QUALITY CONTROL



## PHKG-P

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

*Project*
1144711

Printed 06/02/2025

**Duplicate**

| *Parameter* | *Sample* | *Result* | *Unknown* | *Unit* | *RPD* | *Limit%* |
|---|---|---|---|---|---|---|
| Laboratory pH | **2401506** | **9.00** | **9.00** | **SU** | 0 | 20.0 |

**Standard**

| *Parameter* | *Sample* | *Reading* | *Known* | *Units* | *Recover%* | *Limits%* | *File* |
|---|---|---|---|---|---|---|---|
| Laboratory pH | **1171740** | **6.04** | **6.00** | **SU** | **101** | **90.0 - 110** | **127533716** |
| Laboratory pH | **1171740** | **8.01** | **8.00** | **SU** | **100** | **90.0 - 110** | **127533717** |
| Laboratory pH | **1171740** | **6.07** | **6.00** | **SU** | **101** | **90.0 - 110** | **127533727** |
| Laboratory pH | **1171740** | **7.98** | **8.00** | **SU** | **99.8** | **90.0 - 110** | **127533728** |

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / 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.)

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

# CHAIN OF CUSTODY

Printed 04/14/2025 Page 1 of 3

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

PHKG-P
103

Lab Number J401512

PO Number

Phone 806/376-8600

WW Dimmitt WWTP

☐ 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

★ CL2, PH in Lab ★

Sampler Printed Name: Roy Haden
Sampler Affiliation: PHKG
Sampler Signature: Roy Haden

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

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

# CHAIN OF CUSTODY

Printed 04/14/2025 Page 2 of 3

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

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

| | | | | |
|---|---|---|---|---|
| NELAC | **Short HoldSubc** | ECPH | E.Coli WW MPN Panhandle (SUB) | SUB Lab CAS:EMLC (0.333 days) |
| | **2** | **H2SO4 to pH <2 GlQt 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 | | !CIL | Chloride | EPA 300.0 2.1 (28.0 days) |
| NELAC | **Short Hold** | !N3L | Nitrate-Nitrogen Total | EPA 300.0 2.1 CAS:14797-55-8 (2.00 days) |
| NELAC | | !S4L | 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

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: Roy Haden | Affiliation: PHKG | Printed Name: Derek Crois | Affiliation: SPL |
| | | Signature: | | Signature: | |
| 4-22-25 | 1800 | Printed Name: Derek Crois | Affiliation: SPL | Printed Name: XPO | Affiliation: |
| | | Signature: | | Signature: | |
| 4/23/25 | 0900 | Printed Name: XPS | Affiliation: | Printed Name: Andy Owens - SPL, Inc. | Affiliation: |
| | | Signature: | | Signature: | |
| | | Printed Name: | Affiliation: | Printed Name: | Affiliation: |
| | | Signature: | | Signature: | |

Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached

*The accredited column designates accreditation by A - A2LA, N - NELAC, 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**

# COOLER CHECKIN

| | |
|---|---|
| Region/Driver/Client | Panhandle |
| Date / Time: | 4/23 1 0900 |
| Cooler: | of |
| Shipping Company: | XPS |

## Temp Label:

4/23 0900
Date Time Tech
Temp: 1.7 / 1.4 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: Ray Haden | Report To: (Buyer) |
| Company: Parkhill | Purchase Order #: |
| | Address: |
| Email: rhaden@parkhill.com | Email: Kilgore.projectmanagement@spclabs.com |
| Phone: 806-683-1069 | Phone: |
| Project Name: | Quote #: |
| Project Location: Dimmitt WWTP | City, State: Dimmitt, Texas |
| Hand Deliver: ☐ Pick-up: ☐ | Sampler: (Please Print) Ray Haden |

ANALYSES REQUESTED

NOTES:

| Lab# | Client Sample ID | Matrix | Date | Time | *Pres. Code | ‡Bottle Code | CBOD / BOD | TSS | pH | DO | NH3N (pH<2.0, $H_2SO_4$) SM4500-NH3 D or G unless specified | FECAL COLIFORM (E.COLI (Sterile)) | MLSS | ALKALINITY | | | | Sample Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1. Dimmitt 103 | WW | 4/22/25 | 9:46 | 6e | 1 | | | | | | X | | | | | | |
| | 2. | | | | | | | | | | | | | | | | | |
| | 3. | | | | | | | | | | | | | | | | | |
| | 4. | | | | | | | | | | | | | | | | | |
| | 5. | | | | | | | | | | | | | | | | | |
| | 6. | | | | | | | | | | | | | | | | | |
| | 7. | | | | | | | | | | | | | | | | | |
| | 8. | | | | | | | | | | | | | | | | | |
| | 9. | | | | | | | | | | | | | | | | | |
| | 10. | | | | | | | | | | | | | | | | | |

| Relinquished By: | Date | Time | Received By: | Date | Time |
|---|---|---|---|---|---|
| 1. Ray Haden | 4/22/25 | 11:23 | 1. | 4-22-25 | 11:23 |
| 2. | 4-22-25 | 12:23 | 2. Cindy Craig | 04/22/25 | 12:23 |
| 3. | | | 3. | | |
| 4. | | | 4. | | |

IR GUN ID: _____
Ice: YES NO
Temperature: _____

* Preservation Codes: 1. None 2. Sulfuric 3. Nitric 4. NaOH + ZnAc 5. NaOH 6. Sterile + Thiosulfate

‡ Bottle Codes: 1. Plastic 2. Glass + Tef. 3. 40 ml VOA

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

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

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

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

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

ENVIRONMENTAL MONITORING LABORATORY , L.L.C

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

# ANALYTICAL RESULTS

Analytical Report: 25042413

Lab ID: 25042413-001
Client: SPL-Inc.
Sample Site: Dimmitt 103

Collected Date: 04/22/25 09:46
Received Date: 04/22/25 12:23
Report Date: 04/28/25

Matrix: Waste Water
Temp at Receipt: 6.3 °C
Sample Collector: RH

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

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

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Control #: 25042413

# QUALITY ASSURANCE & QUALITY CONTROL

| ANALYTE | ABBR./ ALT.NAME | STANDARD METHOD | UNITS | Quality Control S.D. | CV% | REC.1% | REC.2% | MDL/PQL | Q |
|---|---|---|---|---|---|---|---|---|---|
| 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

| Results | Units | Description |
|---|---|---|

Dissolved Oxygen
Method: SM 4500-O*/G

| Results | Units | Description |
|---|---|---|
| | 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

| Results | Units | Description |
|---|---|---|
| | CFU/100ml | Pre Blank |
| | CFU/100ml | Post Blank |

TDS by SM2540/C

| Results | Units | Description |
|---|---|---|
| | mg/L | Blank |

*E. coli* By IDEXX Colilert (enumeration)

MPN/100 mL

Total Suspended Solids (TSS, MLSS)
Method: 2540/D

| Results | Units | Description |
|---|---|---|

Conductivity @ 25° C
Method: SM2510/B
Standards ran for each analytical batch.

| Results | Units | Description |
|---|---|---|
| | umhos/cm | Conductivity Standard |
| | umhos/cm | Conductivity Standard |
| | umhos/cm | Conductivity Standard |

**Report Out Date:** 04/28/2025

Lisa Soward
Data Manager



Final 1.000

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

# Purchase Order / Chain of Custody

TCEQ Lab ID: T104704247

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

**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: Roy Haden | Report To: (Buyer) |
| Company: Parkhill | Purchase Order #: |
| SPL | Address: |
| Email: rhaden@parkhill.com | Email: Kilgore.projectmanagement@spllabs.com |
| Phone: 806-693-1069 | Phone: |
| Project Name: | Quote #: |
| Project Location: Dimmitt WWTP | City, State: Dimmitt, Texas |
| Hand Deliver: ☐ Pick-up: ☐ | Sampler: (Please Print) Roy Haden |

25042413

**ANALYSES REQUESTED**

NOTES:

Analyzed in Amarillo Location of Environmental Monitoring Laboratory, LLC 13501 South US Highway 287 Amarillo TX 79118-7005

| Lab# | Client Sample ID | Matrix | Date | Time | *Pres. Code | †Bottle Code | CBOD / BOD | TSS | pH | DO | NH3N (pH<2.0, $H_2SO_4$) SM4500-NH3 D or G unless specified | FECAL COLIFORM / E.COLI (Sterile) | MLSS | ALKALINITY | | | Sample Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25042413 | 1. Dimmitt 103 | WW | 4/22/25 | 9:46 | Ce | 1 | | | | | | X | | | | | |
| | 2. | | | | | | | | | | | | | | | | |
| | 3. | | | | | | | | | | | | | | | | |
| | 4. | | | | | | | | | | | | | | | | |
| | 5. | | | | | | | | | | | | | | | | |
| | 6. | | | | | | | | | | | | | | | | |
| | 7. | | | | | | | | | | | | | | | | |
| | 8. | | | | | | | | | | | | | | | | |
| | 9. | | | | | | | | | | | | | | | | |
| | 10. | | | | | | | | | | | | | | | | |

| Relinquished By: | Date | Time | Received By: | Date | Time |
|---|---|---|---|---|---|
| 1. Roy Haden | 4/22/25 | 11:23 | 1. | 4-22-25 | 11:23 |
| 2. | 4-22-25 | 1223 | 2. Cindy Wing | 04/22/25 | 12:23 |
| 3. | | | 3. | | |
| 4. | | | 4. | | |

IR GUN ID: IR#0004

Ice: (YES) NO

Temperature: 6e.3

* Preservation Codes: 1. None 2. Sulfuric 3. Nitric 4. NaOH + ZnAc 5. NaOH 6. Sterile + Thiosulfate

† Bottle Codes: 1. Plastic 2. Glass + Tef. 3. 40 ml VOA

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

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Revised 06/2024

# 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:

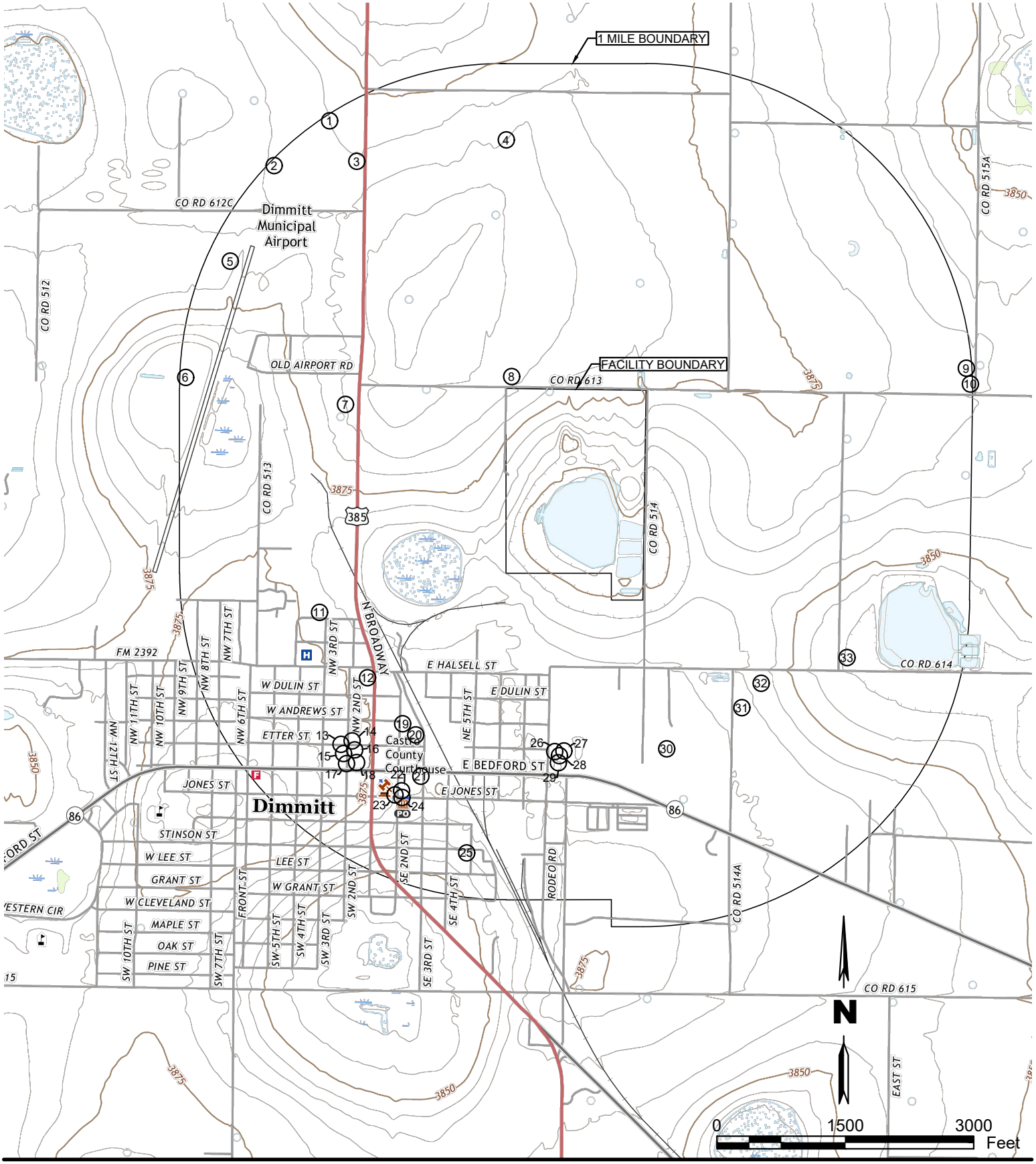
Nutrient Uptake Rates for Selected Crops

| 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 @ 25º 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: | **Jake Myatt** | Owner Well #: | **20** |
| Address: | **9009 County Road 6850<br>Lubbock, TX 79407** | Grid #: | **10-30-5** |
| Well Location: | **.5 miles north of Dimmitt<br>Dimmitt, TX 79027** | Latitude: | **34° 34' 46.4" N** |
| | | Longitude: | **102° 18' 57.5" W** |
| Well County: | **Castro** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Irrigation** |

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

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **16** | **0** | **383** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **13** | **Cement 2 Yards** |

Seal Method: **Poured**

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: **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:

| 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**

**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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **2** | **Topsoil** |
| **2** | **10** | **Sandy Clay** |
| **10** | **98** | **Sand** |
| **98** | **331** | **Sand - Sandstone** |
| **331** | **365** | **Coarse Sand** |
| **365** | **373** | **Coarse Sand - Gravel** |
| **373** | **383** | **Red Bed** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **10** | **Blank** | **New Steel** | **250** | **0** | **343** |
| **10** | **Perforated or Slotted** | **New Steel** | **250** | **343** | **383** |

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

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

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **16** | **0** | **394** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **12** | **Cement 2 Yards** |

Seal Method: **Poured**

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: **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:

| 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**

**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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **4** | **Topsoil** |
| **4** | **14** | **Sandy Clay** |
| **14** | **99** | **Sand** |
| **99** | **335** | **Sand - Sandstone** |
| **335** | **373** | **Coarse Sand** |
| **373** | **382** | **Coarse Sand - Gravel** |
| **382** | **394** | **Red Bed** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **10** | **Blank** | **New Steel** | **250** | **0** | **354** |
| **10** | **Perforated or Slotted** | **New Steel** | **250** | **354** | **394** |

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

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

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**P.O. Box 12157**
**Austin, TX 78711**
**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #507519

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

Type of Work: **New Well** Proposed Use: **Irrigation**

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

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **16** | **0** | **385** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **10** | **Cement 10 Bags/Sacks** |

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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:

| 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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **4** | **Top Soil** |
| **4** | **10** | **Caliche** |
| **10** | **35** | **Red Sand** |
| **35** | **180** | **Sandy Clay** |
| **180** | **195** | **Sandstone** |
| **195** | **255** | **Sand** |
| **255** | **280** | **Sandstone** |
| **280** | **360** | **Sand** |
| **360** | **380** | **Sandstone** |
| **380** | **385** | **Red Clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **10.75** | | **New Steel** | | **0** | **265** |
| **10.75** | **Perforated or Slotted** | **New Steel** | **0.25** | **265** | **385** |

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

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**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** | Owner Well #: | **#1A** |
| Address: | **426 Star**<br>**Hereford, TX 79045** | Grid #: | **10-30-5** |
| Well Location: | **Dimmitt, TX 79027** | Latitude: | **34° 34' 40" N** |
| | | Longitude: | **102° 18' 07" W** |
| Well County: | **Castro** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Irrigation** |

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

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **15** | **0** | **385** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **10** | **10** |

Seal Method: **Pumped**

Sealed By: **Driller**

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

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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **270** | **Normal** |

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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **3** | **Topsoil** |
| **3** | **20** | **Sand-Clay** |
| **20** | **75** | **Sandstone** |
| **75** | **85** | **Clay** |
| **85** | **250** | **Sand-Sandstone** |
| **250** | **280** | **Sand-Clay** |
| **280** | **378** | **Sand-Small Gravel** |
| **378** | **385** | **Red Bed** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **10 3/4** | **New** | **Steel Perf. +1-385 .219** | |

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**Austin, TX 78711**
**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #665034

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

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

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **12** | **0** | **410** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **10** | **Cement 10 Bags/Sacks** |

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **332N, 60E**

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

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

Method of Verification: **Wheel**

Surface Completion: **Steel Cased** **Surface Completion by Driller**

Water Level: **350 ft.** below land surface on **2024-03-11** Measurement Method: **Weighted Line**

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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **4** | **Top Soil** |
| **4** | **29** | **Clay** |
| **29** | **68** | **Sand and Sandstone** |
| **68** | **210** | **Sand** |
| **210** | **300** | **Sandy Clay and Sandstone** |
| **300** | **389** | **Clay** |
| **389** | **400** | **Sand and Gravel** |
| **400** | **410** | **Redbed** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **8.625** | **Blank** | **New Steel** | | **0** | **326** |
| **8.625** | **Perforated or Slotted** | **New Steel** | | **326** | **410** |

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

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**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: | **Jake Myatt** | Owner Well #: | **100611** |
| Address: | **9009 CR 6850<br>Lubbock, TX 79407** | Grid #: | **10-30-5** |
| | | Latitude: | **34° 34' 07.28" N** |
| Well Location: | **Survey: Baird, DC<br>1.4 Miles N of Dimmitt and .4 Miles W of Dimmitt<br>Dimmitt, TX** | Longitude: | **102° 19' 21.37" W** |
| | | Elevation: | **No Data** |
| Well County: | **Castro** | | |

Type of Work: **New Well** Proposed Use: **Irrigation**

Drilling Start Date: **3/14/2024** Drilling End Date: **3/15/2024**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **12** | **0** | **390** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **10** | **Cement 10 Bags/Sacks** |

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **66S and 73E**

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

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

Method of Verification: **Wheel**

Surface Completion: **Steel Cased** **Surface Completion by Driller**

Water Level: **349 ft.** below land surface on **2024-03-14** Measurement Method: **Weighted Line**

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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **5** | **Top Soil** |
| **5** | **43** | **Clay** |
| **43** | **90** | **Sand and Sandstone** |
| **90** | **210** | **Sand** |
| **210** | **288** | **Sand and Sandstone** |
| **288** | **373** | **Clay** |
| **373** | **383** | **Coarse Sand and Gravel** |
| **383** | **390** | **Redbed** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **8.625** | **Blank** | **New Steel** | | **0** | **306** |
| **8.625** | **Perforated or Slotted** | **New Steel** | | **306** | **390** |

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**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. ___, 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. ____

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented From ____ to ____ ft.

| | Diameter (in.) | Setting (feet) From | Setting (feet) To |
|---|---|---|---|
| C | 16 | 0 | 305 |
| S | 16 | 305 | 405 |
| | | | |
| | | | |
| | | | |

**Water Use**

Primary Unused U Secondary ____ ___ Tertiary ____ ___

Other Data Available: Water Level C Water Quality ___ Logs ___

Pump Yield ____ GPM Measured ☐ Reported ☐ Estimated ☐

Other Data ____

**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

# Texas Water Development Board
## Well Schedule

State Well No. 10 30 505 Previous Well No. _____ County CASTRO 069

River Basin BRAZOS 12 Zone 1 Region _____ Lat. 34 34 01 Long. 102 18 49 Source of Coord. _____

Owner's Well No. _____ Location SE 1/4, NE 1.4, Section 22, Block M, Survey _____

PERMIT # 1452

Owner BOB MCLEAN Driller DON WADE

Address _____ Tenant/Oper. _____

Date Drilled 07 28 1959 Depth 405 Source of Depth Datum D Altitude 3852 Source of Alt. Datum M

Aquifer OGALLALA 121OGLL Well Type W User _____

Well Construction Const. Method Rotary _____ Casing Material Steel S

Completion Perforated P Screen Material Steel S

Lift Data Pump Mfr. FAIRBANKS MORSE AMARILLO GH Type TURBINE 7 No. Stages _____

Bowls Diam. _____ in. Setting _____ ft. Column Diam. _____ in.

Motor Mfr. NONE Fuel or Power NONE _____ 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 _____

Water Use Primary UNUSED U Secondary _____ Tertiary _____

Other Data Available: Water Level C, Water Quality _____, Logs _____, Other Data _____

| | Date | Meas. | |
|---|---|---|---|
| Water Levels | 01 27 1992 | 260.35 | Below LSD. |
| | _____ | _____ | _____ |
| | _____ | _____ | _____ |

Casing or Blank Pipe (C) / Well Screen or Slotted Zone (S) / Open Hole (O) / Cemented from ___ to ___

| | Diam. (in.) | Setting (feet) From | To |
|---|---|---|---|
| 1 | C 16 | 0 | 305 |
| 2 | S 16 | 305 | 405 |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |

Recorded By DAN SEALE Date Record Collected or Updated 04 28 1992 (20 max) Reporting Agency 05

Remarks
1 ID PLATE FACE UP WEST SIDE CONCRETE
2 BASE
3
4
5 MO-AIRLINE HOLE WEST SIDE PUMP BASE
6 =H 1.20 ft

Aquifer OGALLALA

Well No. 10 30-505

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: ¼, ¼, 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)

| CASING, BLANK PIPE & WELL SCREEN Cemented From ft. to ft. | | | |
|---|---|---|---|
| Diam. (in.) | Type | Setting (feet) from | to |
| -- | -- | 0 | 405 |
| | | | |
| | | | |
| PERFORATIONS OR SCREEN | | | |
| slots from 305 ft. to 405 | | | |
| ft. - Size ¼ in. | | | |

13. Water Level(s): 217.80 ft. meas. 1-10 19 69 above below which is 1.20 ft. above Land Surface
ft. rept. meas. 19 above below which is ft. above below 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: HPUWCD#1 files Date: 7-24-79
Original record: H. Spradlin 4-9-69

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 ½ inch hole W. side of pump base inside pump port +1.20 ft.

17. Location or Sketch:

TDWR-0308

W/L Obs. Well X W/Q Obs. Well
State Well No. 10 - 30 - 505

Form B-4 (62-1)

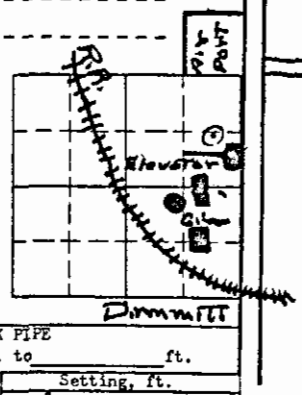
TEXAS WATER COMMISSION

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 19 59; Dug, Cable Tool, Rotary,

5. Depth: Rept. 405 ft. Meas. _____ ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfgr. Fairbanks Morris Type Turbine

   No. Stages _____, Bowls Diam. 10 in., Setting _____ ft.

   Column Diam. 5 in., Length Tailpipe _____ ft. 6" Discharge

8. Motor: Fuel nat. Gas Make & Model International HP.

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.

CASING & BLANK PIPE

Cemented From _____ ft. to _____ ft.

| Diam. (in.) | Type | Setting, ft. from | to |
|---|---|---|---|
| | | | |

11. Water Level:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| _____ ft. | rept. meas. | _____ 19 | above below | _____ | which is | _____ ft. | above below surface. |
| 196.18 ft. | ~~rept.~~ meas. | Oct. 26 1962 | above below | 1" hole in bottom of pump | which is | 1.2 ft. | above ~~below~~ surface. |
| 204.08 ft. | ~~rept.~~ meas. | 1-4 1963 | above below | Pumped some recently, East side | which is | 1.2 ft. | above ~~below~~ surface. |
| _____ ft. | rept. meas. | _____ 19 | above below | _____ | which is | _____ ft. | above below surface. |

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 _____

WELL SCREEN

Screen Openings _____

| Diam. (in.) | Type | Setting, ft. from | to |
|---|---|---|---|
| | | | |

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,

    Formation Samples, Pumping Test, _____

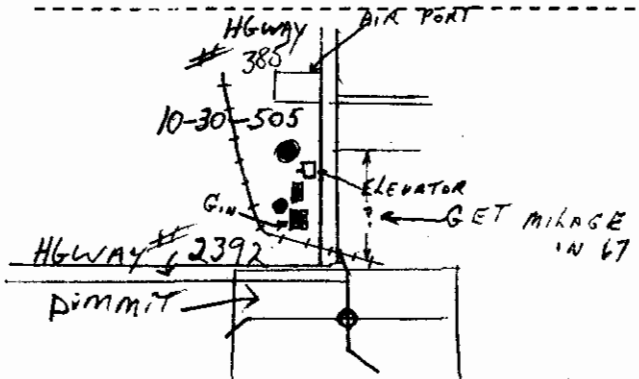
15. Record by: Wayne Wyatt Date Oct. 26 19 62

    Source of Data _____

16. Remarks: Number plate on east side of pump base

    211 yards from north line

    83 yards from east line




(Sketch)

MP-1" HOLE IN BOTTOM OF PUMP
E. SIDE = +1.2 FT.
N

10-30-505

COUNTY CASTRO

NO. 10-30-505

LOCATION SKETCH

BY DAN SEALE

DATE 4-28-92

PHOTOGRAPHS

BY DAN SEALE

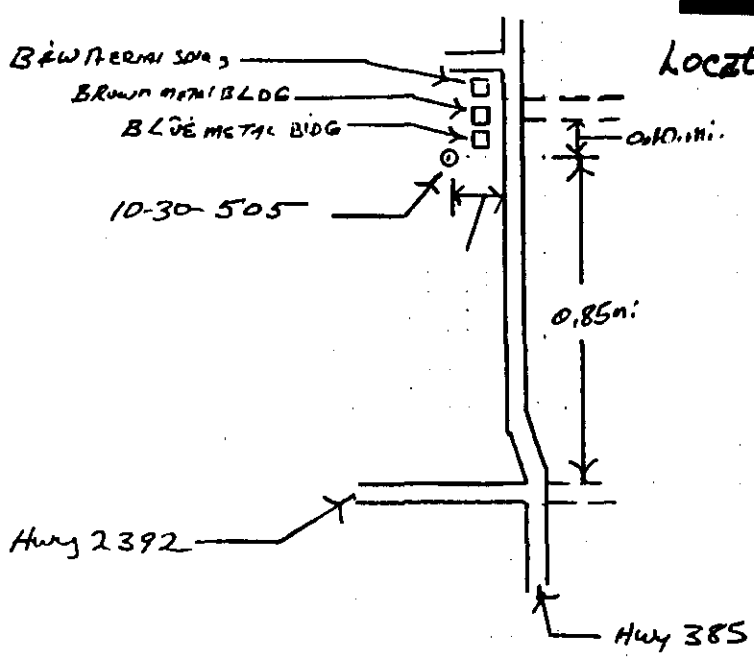
DATE 4-15-92




MP-ID View Looking EAST



Location View Looking NE.




N

NO. 10-30-505

# STATE OF TEXAS WELL REPORT for Tracking #646665

| | | | |
|---|---|---|---|
| Owner: | **Estevan Porras** | Owner Well #: | **No Data** |
| Address: | **1431 County Road 613<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **1431 County Road 613<br>Dimmitt, TX 79027** | Latitude: | **34° 34' 07.4" N** |
| | | Longitude: | **102° 18' 14.66" W** |
| Well County: | **Castro** | Elevation: | **No Data** |

Type of Work: **New Well** Proposed Use: **Domestic**

Drilling Start Date: **8/10/2023** Drilling End Date: **8/11/2023**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **9** | **0** | **405** |

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

Borehole Completion: **Filter Packed**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|---|
| Filter Pack Intervals: | **22** | **405** | **Gravel** | **8/16** |

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **2** | **22** | **Cement 8 Bags/Sacks** |

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:

| 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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **5** | **Topsoil** |
| **5** | **15** | **Caliche Clay** |
| **15** | **110** | **Sand and Sandstone** |
| **110** | **140** | **Sandy Clay - Tan** |
| **140** | **300** | **Sand and Sandstone** |
| **300** | **365** | **Fine Sand** |
| **365** | **385** | **Gravel and Sand** |
| **385** | **395** | **Sandy Clay with Minor Gravel** |
| **395** | **405** | **Red Clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **5** | **Blank** | **New Steel** | | **-2** | **3** |
| **5** | **Blank** | **New Plastic (PVC)** | | **3** | **355** |
| **5** | **Perforated or Slotted** | **New Plastic (PVC)** | **0.035** | **355** | **395** |
| **5** | **Blank** | **New Plastic (PVC)** | | **395** | **405** |

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

# Texas Water Development Board (TWDB)
# Groundwater Database (GWDB)
# Well Information Report for State Well Number 10-30-601

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*

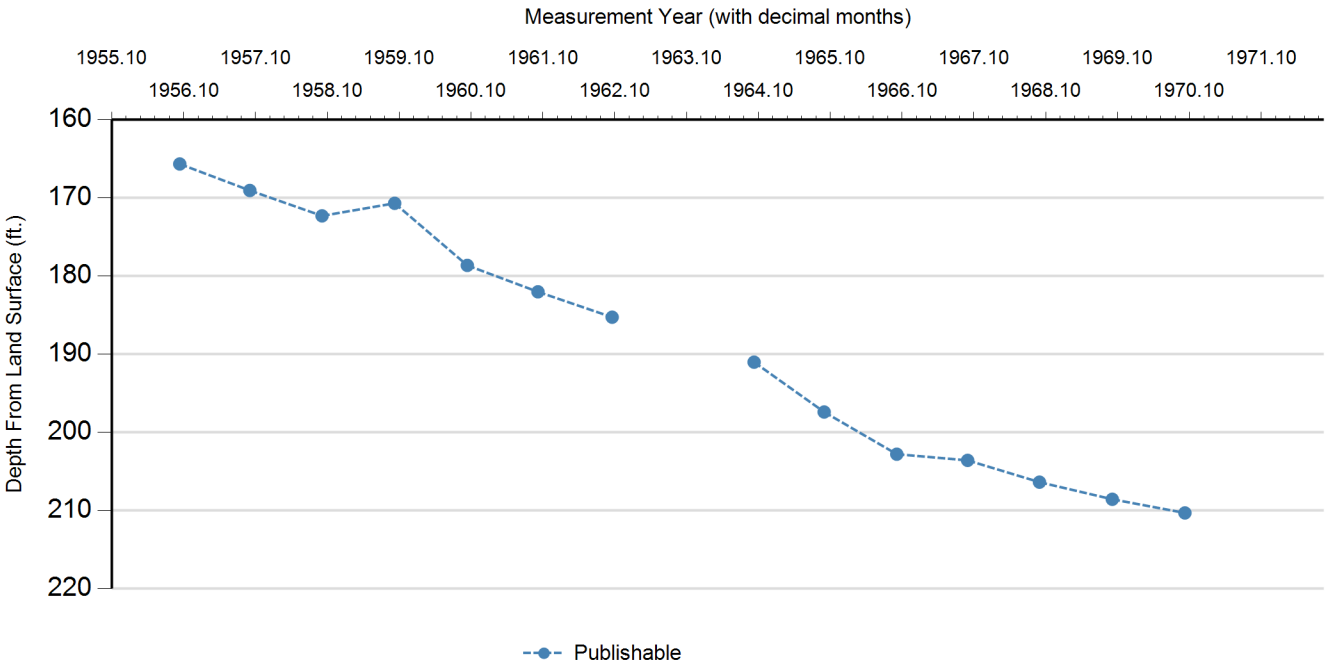
### *Borehole - No Data*

### *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

# Texas Water Development Board (TWDB)
# Groundwater Database (GWDB)
# Well Information Report for State Well Number 10-30-601

groundwater division

| 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/gwdbrpt.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.*

# 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*

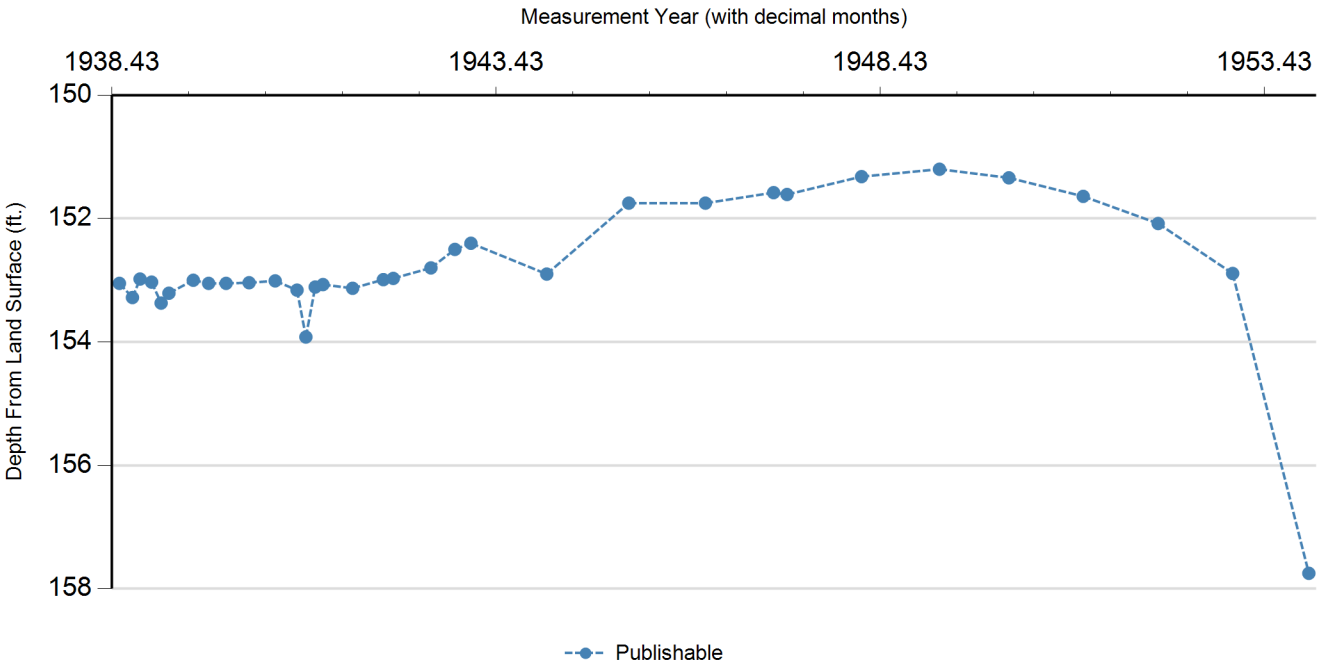
### *Borehole - No Data*

### *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

# Texas Water Development Board (TWDB)
# Groundwater Database (GWDB)
# Well Information Report for State Well Number 10-30-602

groundwater division

| 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

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# STATE OF TEXAS WELL REPORT for Tracking #267634

| | | | |
|---|---|---|---|
| Owner: | **Lily Nickolson** | Owner Well #: | **1** |
| Address: | **304 Wheat Street<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **304 Wheat Street<br>Dimmitt, TX 79027** | Latitude: | **34° 33' 30" N** |
| | | Longitude: | **102° 18' 56" W** |
| Well County: | **Castro** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Irrigation** |

Drilling Start Date: **8/12/2011** Drilling End Date: **8/15/2011**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **9.875** | **0** | **405** |

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

Borehole Completion: **Filter Packed**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|---|
| Filter Pack Intervals: | **20** | **405** | **Gravel** | **3/16** |

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **2** | **20** | **16** |

Seal Method: **cement**

Sealed By: **Driller**

Distance to Property Line (ft.): **250**

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

| 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** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| 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: | **Bill Myatt** | Owner Well #: | **94585** |
| Address: | **#7 Paxton Place<br>Levelland, TX 79336** | Grid #: | **10-30-5** |
| Well Location: | **Block: T<br>Survey: Thompson, RM<br>SW 1/4<br>Section:65<br>1 Mile South and 9 Miles West of Dimmit<br>Dimmitt, TX** | Latitude: | **34° 33' 17.94" N** |
| | | Longitude: | **102° 18' 45.6" W** |
| | | Elevation: | **No Data** |
| Well County: | **Castro** | | |
| Type of Work: | **New Well** | Proposed Use: | **Irrigation** |

Drilling Start Date: **4/12/2019** Drilling End Date: **4/12/2019**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **16** | **0** | **448** |

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

Borehole Completion: **Straight Wall**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **10** | **Cement 10 Bags/Sacks** |

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:

| 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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **3** | **Top Soil** |
| **3** | **16** | **Caliche** |
| **16** | **112** | **Sandy Clay** |
| **112** | **183** | **White Sand** |
| **183** | **246** | **Brown Sand** |
| **246** | **265** | **Sandstone** |
| **265** | **316** | **Sandy Clay** |
| **316** | **342** | **Sandstone** |
| **342** | **387** | **Sand** |
| **387** | **403** | **Clay** |
| **403** | **415** | **Sand/Gravel** |
| **415** | **441** | **Coarse Sand** |
| **441** | **448** | **Red Clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **10** | | **New Steel** | | **0** | **328** |
| **10** | **Perforated or Slotted** | **New Steel** | **0.375** | **328** | **448** |

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

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

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

# STATE OF TEXAS WELL REPORT for Tracking #211542

| | | | |
|---|---|---|---|
| Owner: | **ENPROTEC- TCEQ contract 582879649** | Owner Well #: | **IW1 LPST099894** |
| Address: | **6310 Genoa Ave Suite E Lubbock, TX 79424** | Grid #: | **10-30-5** |
| Well Location: | **NW 2nd & W. Etter St Dimmitt, TX 79027** | Latitude: | **34° 33' 07" N** |
| Well County: | **Castro** | Longitude: | **102° 18' 51" W** |
| | | Elevation: | **No Data** |

Type of Work: **New Well** Proposed Use: **Injection**

Drilling Start Date: **3/2/2010** Drilling End Date: **3/6/2010**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **12.25** | **0** | **408** |

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

Borehole Completion: **Filter Packed**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|---|
| Filter Pack Intervals: | **85** | **398** | **Gravel** | **3/8" PEA** |

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **2** | **83** | **21 SACKS CEMENT** |
| | **83** | **85** | **7 SACKS** |

Seal Method: **CEMENT & BENTONITE CHIPS**

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: **Surface Slab Installed**

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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **3** | **TOP SOIL** |
| **3** | **30** | **CLAY** |
| **30** | **48** | **SANDY CLAY MIX** |
| **48** | **110** | **SAND** |
| **110** | **130** | **SAND & LITTLE GRAVEL** |
| **130** | **270** | **SAND** |
| **270** | **310** | **SAND & SANDSTONE** |
| **310** | **408** | **SAND** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **6** | **N** | **PVC** | **BLANK 0 - 98** |
| **6** | **N** | **PVC** | **SCREEN 98 - 398 .035** |

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**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<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **118 W. Bedford<br>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**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **7.875** | **0** | **340** |

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|
| **275** | **340** | **Gravel** | |

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **260** | **Cement** |
| **260** | **275** | **Bentonite** |

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: **Alternative Procedure 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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **2** | **Brown Top Soil** |
| **2** | **98** | **Brown Sandy Clay** |
| **98** | **265** | **Brown Sand** |
| **265** | **325** | **Brown Sandstone** |
| **325** | **333** | **Brown Sand** |
| **333** | **340** | **Brown Sandstone** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4** | **New** | **PVC** | **Solid 0/300** |
| **4** | **New** | **PVC** | **Slotted 300/340 .020** |

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

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

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

# STATE OF TEXAS WELL REPORT for Tracking #78039

| | | | |
|---|---|---|---|
| Owner: | **Castro Oil & Gas, Inc** | Owner Well #: | **SB-3** |
| Address: | **P.O Box 739<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **118 W. Bedford<br>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**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **8** | **0** | **19** |

Drilling Method: **Solid Auger**

Borehole Completion: **Unknown**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **3** | **Cement** |
| **3** | **19** | **Bentonite** |

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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

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

| From (ft) | To (ft) | Description |
|---|---|---|
| **0** | **12** | **Fill** |
| **12** | **14** | **Sandy Clay** |
| **19** | | **Rock** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **Not Completed** | | | |

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**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<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **118 W. Bedford<br>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**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **12** | **0** | **12** |
| **7.875** | **0** | **338** |

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|
| **285** | **338** | **Gravel** | |

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **10** | |
| **10** | **275** | |

Seal Method: **275 - 285 Chips (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: **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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **Hydrocarbon** |

Chemical Analysis Made: **Unknown**

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

| Natural Injurious Constituents | Unnatural Injurious Constituents |
|---|---|
| | **Hydrocarbon Contamination (gasoline, diesel, etc.)** |

**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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **10** | **Brown Backfill** |
| **10** | **21** | **White Caliche** |
| **21** | **63** | **Brown Clay** |
| **63** | **338** | **Brown Sand & Sandstone** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **4 N PVC Solid 0 295** |
| **4 N PVC Slotted 295 335 .020** |
| **8 N PVC Solid 0 12** |

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**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<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **500 W. Bedford<br>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**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **8** | **0** | **340** |

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

Borehole Completion: **Filter Packed**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|---|
| Filter Pack Intervals: | **280** | **340** | **Gravel** | |

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **268** | |
| | **268** | **280** | |

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: **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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **3** | **Brown Top Soil** |
| **3** | **34** | **Brown Sandy Clay** |
| **34** | **75** | **White Caliche & Brown Sandy Clay** |
| **75** | **186** | **Brown Sand & Sandstone** |
| **186** | **187** | **Hard Rock** |
| **187** | **340** | **Brown Sandy Clay & Sand** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4** | **N** | **PVC** | **Solid 0/300** |
| **4** | **N** | **PVC** | **Slotted 300/340 .020** |

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

# S WATER DEVELOPMENT BOAR

## WELL SCHEDULE

State Well No. 10 30 513 (10–17) Previous Well No. (19–26) County Castro 069 (28–30)

River Basin BRAZOS 12 (32 33) Zone 1 (35) Lat. 34 33 10 (37–42) Long. 102 18 35 (44–50) Source of Coord. 3 (52)

Owner's Well No. Second well Location ____ 1/4, ____ 1/4, Section ____, Block ____, Survey ____

located near 503

Owner City of Dimmitt (10–31) Driller A. B. Hays (33–52)

Address ____ Address ____

Tenant ____ Address ____

Date Drilled ____ ____ 1937 (10–17) Depth 243 (19–23) Source of Depth Datum R (25) Altitude 3877 (27–30) Source of Alt. Datum M (32)

Aquifer Ogalala 1210GLL (34–41) Well Type W (43) User 230800 (45–53)

Well Construction — Const. Method ____ (55) Casing Material ____ (57) Screen Material ____ (59) Completion ____ (61)

Lift Data Pump Mfr. ____ Type ____ (63) No. Stages ____

Bowls Diam. ____ in. Setting ____ ft. Column Diam. ____ in. Length Tailpipe ____ ft.

Motor Mfr. ____ Fuel or Power ____ (65) Horsepower ____ (67–73)

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 Unused U (10) Secondary Use ____ (12) Tertiary Use ____ (14)

Other Data Available — Water Level M (16) Water Quality N (18) Logs (20–25) Other Data (27–31)

Water Levels — Date 12 13 1937 Meas. 155.70 ft. (+) ~~Above~~ (-) Below Landsurface

Date ____ Meas. ____ ft. (+) Above (-) Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 (33–40) Reporting Agency 01 (42 43)

Remarks: City well. Abandoned and plugged in 1938. Well 186 in TBWE Report M-34. Location approximated.

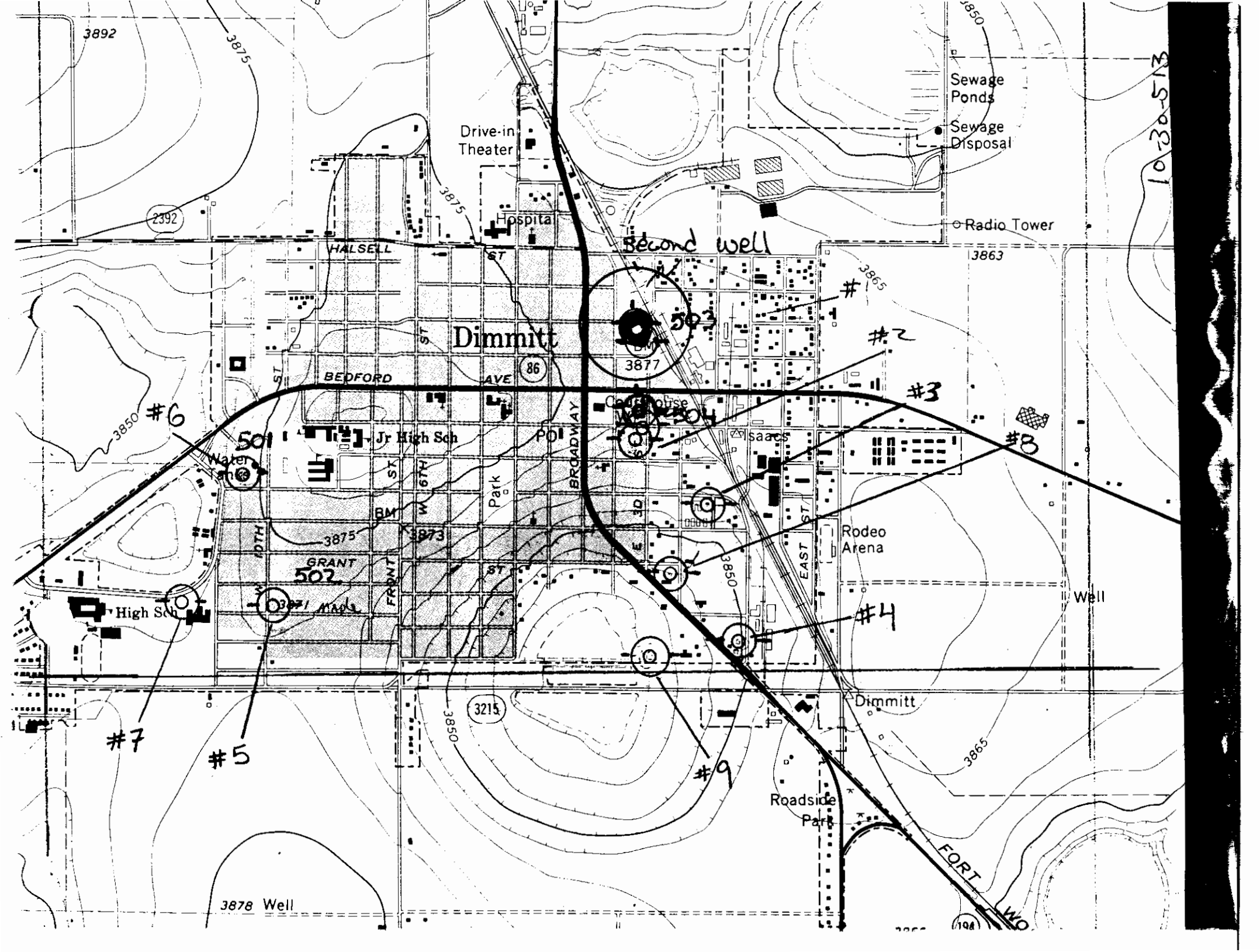
Well Schedule In TWDB File U (45)

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
*Open Hole (O)*
Cemented from ____ to ____

| Diam. (in.) | Setting (feet) From | To |
|---|---|---|
| 10 | 0 | 23 |
| 26 | 0 | 39 |
| 42 | 0 | 55 |
| 58 | 0 | 71 |
| 10 | 0 | 23 |
| 26 | 0 | 39 |
| 42 | 0 | 55 |
| 58 | 0 | 71 |
| 10 | 0 | 23 |
| 26 | 0 | 39 |
| 42 | 0 | 55 |
| 58 | 0 | 71 |
| 10 | 0 | 23 |
| 26 | 0 | 39 |
| 42 | 0 | 55 |
| 58 | 0 | 71 |

Aquifer Ogalala

Well No. 10-30-513


Dimmitt
Second well
#1
#2
#3
#4
#5
#6
#7
#8
#9
503
504
501
502
Drive-in Theater
Hospital
Sewage Ponds
Sewage Disposal
Radio Tower
Jr High Sch
High Sch
Water
Park
Court House
Isaacs
Rodeo Arena
Well
Roadside Park
3878 Well
HALSELL ST
BEDFORD AVE
BROADWAY
6TH ST
4TH ST
GRANT
FRONT
MAIN
EAST ST
FORT WO
3892
3875
3850
3865
3863
3877
3873
3871
3215
2392
86
10-30-513

# Texas Water Development Board
## Well Schedule

groundwater resources

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**

**OGALLALA FORMATION**

Depth (ft): **423**

Elevation (ft): **3874**

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**

**2 measurements**
**1960 to 1989**
**MIN -277.4 MAX -180**

Water Quality: **Y**

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



update

# TEXAS WATER DEVELOPMENT BOARD
## WELL SCHEDULE

State Well No. 10 30 503 (10–17) Previous Well No. Old #2 (19–26) County Castro 069 (28–30)

River Basin BRAZOS 12 (32–33) Zone 1 (35) Lat. 34 33 09 (37–42) Long. 102 18 34 (44–50) Source of Coord. 1 (52)

Owner's Well No. #1 Location ____ 1/4, ____ 1/4, Section ____, Block ____, Survey ____

NEAR RR TRACKS

Owner City of Dimmitt (10–31) Driller (33–52)

Address ____ Address ____

Tenant ____ Address ____

Date Drilled ____ ____ 1954 (10–17) Depth 423 (19–23) Source of Depth Datum R (25) Altitude 3877 (27–30) Source of Alt. Datum M (32)

Aquifer Ogallala 121OGLL (34–41) Well Type W (43) User 230800 (45–53)

Well Construction — Const. Method Rotary H (55) Casing Material Steel S (57)

Screen Material Steel S (59) Completion Perf P (61)

Lift Data — Pump Mfr. ____ Type TURBINE T (63) No. Stages ____

Bowls Diam. ____ in. Setting ____ ft. Column Diam. 10 in. Length Tailpipe ____ ft.

Motor Mfr. ____ Fuel or Power Electric E (65) Horsepower 100.00 (67–73)

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 P (10) Secondary Use ____ (12) Tertiary Use ____ (14)

Other Data Available — Water Level M (16) Water Quality Y (18) Logs (20–25) Other Data (27–31)

Water Levels — Date 08 16 1989 Meas. 1277.40 ft. (+) Above (–) Below Landsurface

Date 10 18 1960 Meas. 180.00 ft. (+) Above (–) Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 (33–40) Reporting Agency 01 (42–43)

Remarks: City well #1. Reported yield 540 GPM in 1960. (10–44 / 46–80)

Well Schedule In TWDB File Y (45)

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from ____ to ____

| | Diam. (in.) | From | To | |
|---|---|---|---|---|
| 10–23 | C 16 | 0 | 180 | 10–23 |
| 26–39 | S 16 | 180 | 423 | 26–39 |
| 42–55 | | | | 42–55 |
| 58–71 | | | | 58–71 |
| 10–23 | | | | 10–23 |
| 26–39 | | | | 26–39 |
| 42–55 | | | | 42–55 |
| 58–71 | | | | 58–71 |
| 10–23 | | | | 10–23 |
| 26–39 | | | | 26–39 |
| 42–55 | | | | 42–55 |
| 58–71 | | | | 58–71 |
| 10–23 | | | | 10–23 |
| 26–39 | | | | 26–39 |
| 42–55 | | | | 42–55 |
| 58–71 | | | | 58–71 |

Aquifer Ogallala

Well No. 10-30-503

TWDB-0409 (02-26-88)

9-185--July 1935
Revised

10-30-503

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## GEOLOGICAL SURVEY
## WATER RESOURCES BRANCH

30 503

0.+0 +

WELL SCHEDULE

Date 10-19, 1960 Field No. #2

Record by R Thomas Office No.

Source of data Ob & Water Supply

1. *Location:* State Texas County Castro

Map

¼ ¼ sec. T N S R E W

2. *Owner:* City 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* Ogalla From ft. to ft.

Others

9. *Water level* ft. rept. meas. 19 above below

which is ft. above below surface

10. *Pump:* Type T Capacity 8" G. M.

Power: Kind Elec Horsepower 100

11. *Yield:* Flow G. M., Pump 540 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 No 10/19/60

Unfit for

14. *Remarks:* (Log, Analyses, etc.) City hist log

USGS-WRD Form GW

Well No. 10-30-803 DD 10 [illegible]803

# ANALYTICAL STATEMENT

COUNTY CASTRO

LAB NO. 70269

Location Dimmitt, Texas

Source (type of well) drilled

Owner City of Dimmitt

Date drld 1954 Depth 426 433 ft

WBF Ogallala

Producing intervals 180 to 426

Water level 180 ft

Sampled after pumping 1 hr

Yield 540 GPM pump meas.

Pt of coll at well

Appearance clear

Temp (°F) 63 Use Pub. Supply

Collector Paul Rettman

Chemist D.K. Leifeste

Date completed Nov. 2, 1960

Checked by WJ

Date transmitted NOV 18 1960

Date of collection Oct. 18, 1960

Ignition Loss

Dissolved Solids:

Calculated (sum) 372

Residue at 180°C 374

Tons per acre foot .51

Hardness as $CaCO_3$ 195

N.C. hardness 0

% Na 34 SAR 1.5 RSC

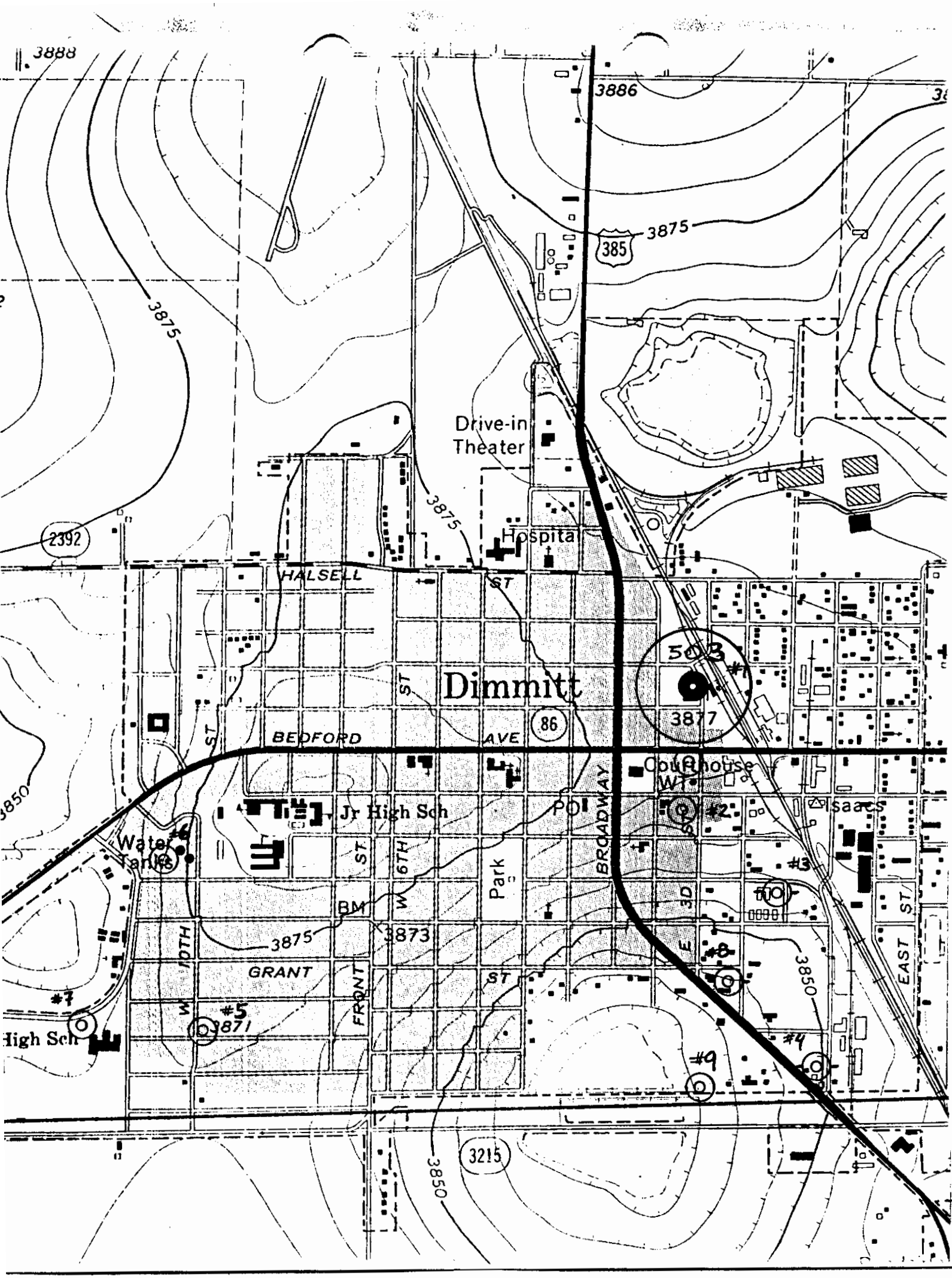
Specific conductance (micromhos at 25°C) 568

pH 7.1 Color

Send copy to:
City of Dimmitt
Box 263
Dimmitt, Texas

| | epm | ppm |
|---|---|---|
| $SiO_2$ | | 60 |
| Fe | | .01 |
| Fe (total) | | .08 |
| Ca | 1.60 | 32 |
| Mg | 2.30 | 28 |
| Na | 2.09 | 48 |
| K | .18 | 7.2 |
| | 6.17 | |
| Na+K | | |
| $HCO_3$ | 4.80 | 293 |
| $CO_3$ | .00 | 0 |
| $SO_4$ | .71 | 34 |
| Cl | .42 | 15 |
| F | .15 | 2.8 |
| $NO_3$ | .02 | 1.2 |
| | 6.10 | |

+0.6 % Error


3888
3886
3875
385
Drive-in
Theater
2392
Hospita
HALSELL
ST
Dimmitt
503
#1
3877
BEDFORD
AVE
86
Courthouse
WT
Jr High Sch
POI
BROADWAY
Isaacs
#2
#3
#10
Water
Tanks
#6
6TH
Park
BM
3873
3875
GRANT
FRONT
#7
#5
3871
High Sch
#8
3850
EAST
#4
#9
3215

# STATE OF TEXAS WELL REPORT for Tracking #24774

| | | | |
|---|---|---|---|
| Owner: | **City of Dimmitt** | Owner Well #: | **B-3** |
| Address: | **200 E. Jones<br>Dimmitt, TX 79027** | Grid #: | **10-30-5** |
| Well Location: | **110 E. 3rd<br>Dimmitt, TX 79027** | Latitude: | **34° 33' 03" N** |
| | | Longitude: | **102° 18' 33" W** |
| Well County: | **Castro** | Elevation: | **No Data** |
| Type of Work: | **Unknown** | Proposed Use: | **Environmental Soil Boring** |

Drilling Start Date: **8/13/2003** Drilling End Date: **8/13/2003**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **2** | **0** | **15** |

Drilling Method: **Direct Push**

Borehole Completion: **Plugged**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **15** | **1** |

Seal Method: **Positive Placement**

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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

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

| From (ft) | To (ft) | Description |
|---|---|---|
| **0** | **7** | **Loose to Slightly Compact. Very Little** |
| | | **Moisture** |
| **7** | **11** | **Hard Clayey Silt with Some Caliche Grains** |
| | | **Nodules and streaks** |
| **11** | **15** | **Hard Clayey Silt** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **No Data** | | | |

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

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

Please include the report's Tracking Number 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

State Well No. 10 30 512 (10–17) Previous Well No. (19–26) County Castro 069 (28–30)

River Basin Brazos 12 (32–33) Zone 1 (35) Lat. 34 33 00 (37–42) Long. 102 18 34 (44–50) Source of Coord. 3 (52)

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 Dimmitt (10–31) Driller D. L. McDonald (33–52)

Address ____ Address ____

Tenant ____ Address ____

Date Drilled ____ ____ 1929 (10–17) Depth 206 (19–23) Source of Depth Datum R (25) Altitude 3870 (27–30) Source of Alt. Datum M (32)

Aquifer Ogalla 1210GLL (34–41) Well Type W (43) User 23 0800 (45–53)

Well Construction: Const. Method ____ (55) Casing Material ____ (57); Screen Material ____ (59) Completion ____ (61)

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from ____ to ____

| Diam. (in.) | From | To |
|---|---|---|
| C 16 | | |

Lift Data Pump Mfr. ____ Type ____ (63) No. Stages ____

Bowls Diam. ____ in. Setting ____ ft. Column Diam. ____ in. Length Tailpipe ____ ft.

Motor Mfr. ____ Fuel or Power ____ (65) Horsepower ____ (67–73)

Yield Flow ____ GPM Pump ____ GPM Meas., Rept., Est. ____ Date ____

Performance Test Date ____ Length of Test Many 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 U (10) Secondary Use ____ (12) Tertiary Use ____ (14)

Other Data Available: Water Level W (16) Water Quality Y (18) Logs (20–25) Other Data (27–31)

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 (33–40) Reporting Agency 01 (42–43)

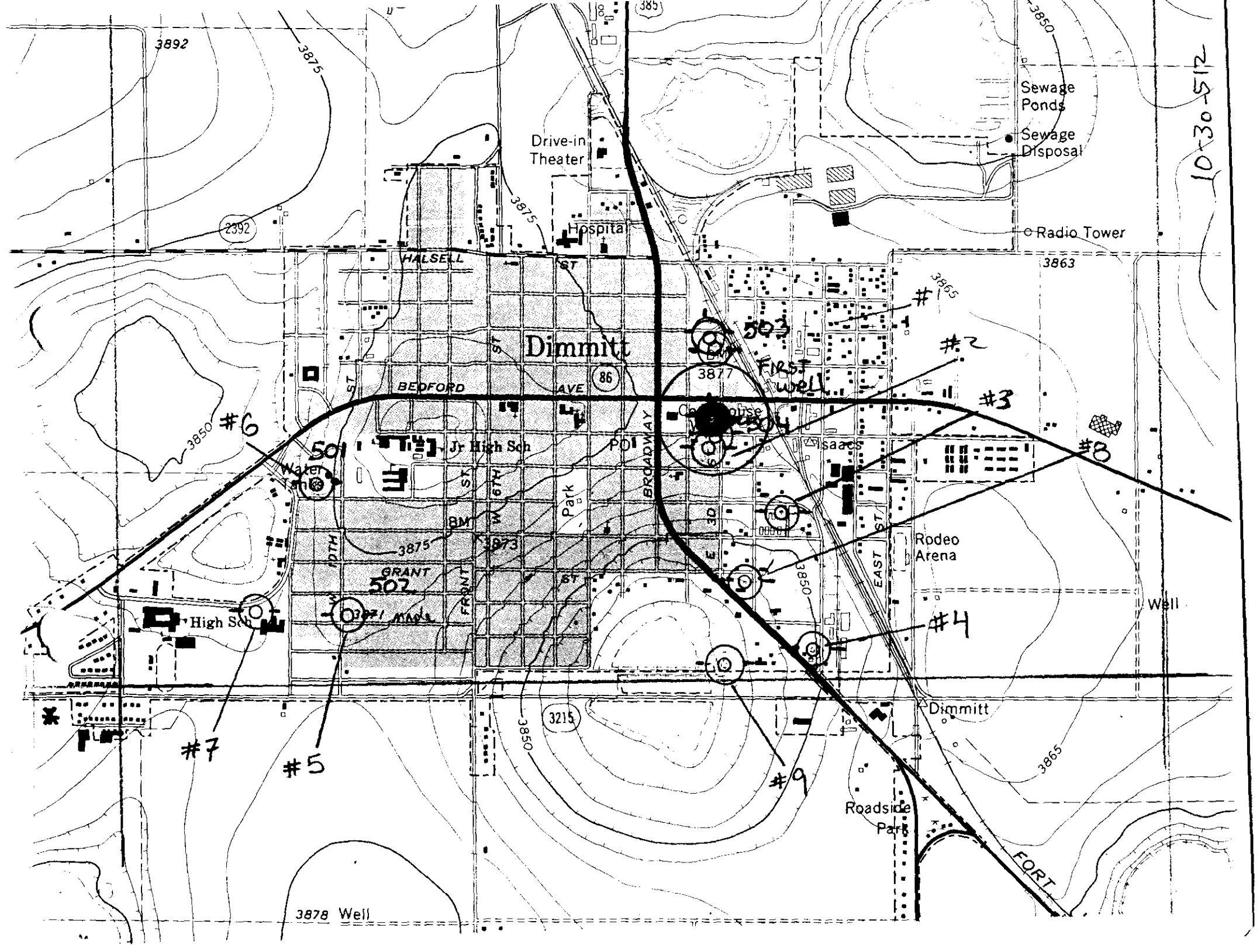
Remarks: City well. Abandoned and destroyed. Well 185 in TBWE Report M-34. Well #1 in TBWE Report M-216. Location Approximated.

Well Schedule In TWDB File Y (45)

Aquifer Ogalla

Well No. 10-30-512

TWDB-0409 (02-26-88)


10-30-512
Sewage Ponds
Sewage Disposal
Drive-in Theater
Hospital
Radio Tower
3863
HALSELL ST
Dimmitt
BEDFORD AVE
86
3877
FIRST well
#1
#2
#3
#4
#5
#6
#7
#8
#9
503
504
501
502
Jr High Sch
High Sch
Water
Park
BROADWAY
6TH ST
10TH ST
GRANT
FRONT ST
EAST ST
Isaacs
Rodeo Arena
Well
Roadside Park
FORT
3878 Well
3892
3875
3850
3865
3215
2392
385

## CASTRO COUNTY

### Dimmitt

Population in 1940: 945.

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 ($SiO_2$) | 44 | |
| Iron (Fe) | .16 | |
| Calcium (Ca) | 55 | 2.75 |
| Magnesium (Mg) | 33 | 2.71 |
| Sodium (Na) | 13 | .55 |
| Potassium (K) | 6.2 | .16 |
| Bicarbonate ($HCO_3$) | 288 | 4.72 |
| Sulfate ($SO_4$) | 38 | .79 |
| Chloride (Cl) | 19 | .54 |
| Fluoride (F) | 2.2 | .12 |
| Nitrate ($NO_3$) | .2 | .00 |
| Dissolved solids | 353 | |
| Total hardness as $CaCO_3$ | 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 rock | 60 | 278 |
| Red sand | 5 | 20 | Lime rock | 12 | 290 |
| Sandrock | 15 | 35 | Water sand and sand-rock | 38 | 328 |
| Sand and sandrock | 63 | 98 | Hard sandrock | 17 | 345 |
| Hard sand | 52 | 150 | Water sand and sand-rock | 49 | 394 |
| White lime | 10 | 160 | Yellow clay | 8 | 402 |
| Water sand | 4 | 164 | Lime rock | 13 | 415 |
| Sandrock | 4 | 168 | "Red beds" | 2 | 417 |
| Water sand and sandrock | 44 | 212 | | | |

10-30-512

# Texas Water Development Board
## Well Schedule

groundwater resources

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**

**OGALLALA FORMATION**

Depth (ft): **410**

Elevation (ft): **3870**

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**
**1 measurement**
**1967**
**-200**

Water Quality: **Y**

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 (10–17) Previous Well No. 2714 (19–26) County Castro 069 (28–30)

River Basin Brazos 12 (32–33) Zone 1 (35) Lat. 34 32 57 (37–42) Long. 102 18 35 (44–50) Source of Coord. 1 (52)

Owner's Well No. #2 Location ____ 1/4, ____ 1/4, Section ____, Block ____, Survey ____

Directly Behind City Hall

Owner City of Dimmitt (10–31)

Address ____

Tenant ____

Address ____

Driller West Texas Drilling, Inc. (33–52)

Address P.O. Box 726

Address Hereford, Tx.

Date Drilled 01 26 1967 (10–17) Depth 410 (19–23) Source of Depth Datum D (25) Altitude 3867 (27–30) Source of Alt. Datum M (32)

Aquifer Ogallala 121OGLL (34–41) Well Type W (43) User 230800 (45–53)

Well Construction: Const. Method Mud Rotary H (55) Casing Material Steel S (57)

Screen Material Steel S (59) Completion Straight Wall PERF 1/8" P (61)

Lift Data: Pump Mfr. ____ Type Turbine T (63) No. Stages 6

Bowls Diam. 12 in. Setting 340 ft. Column Diam. 6 in. Length Tailpipe ____ ft.

Motor Mfr. ____ Fuel or Power Electric E (65) Horsepower 75.00 (67–73)

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 (10) Secondary Use ____ (12) Tertiary Use ____ (14)

Other Data Available: Water Level M (16) Water Quality N (18) Logs D (20–25) Other Data (27–31)

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 (33–40) Reporting Agency 01 (42–43)

Remarks: City Well #2. Reported yield 536 GPM with 102 feet drawdown in 1967.

Well Schedule In TWDB File Y (45)

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from ____ to ____

| | Diam. (in.) | From | To | |
|---|---|---|---|---|
| C | 16 | 0 | 200 | |
| S | 16 | 200 | 400 | |
| C | 16 | 400 | 410 | |

Aquifer Ogallala

Well No. 10-30-506

TWDB-0409 (02-26-88)

GW 7

Send original copy by certified mail to the Texas Water Development Board P. O. Box [illegible] Austin, Texas 78711

State of Texas

WATER WELL [illegible]

For TWDB use only
Well No. 10-30-506
Located on map [illegible]
Received: 6-9-67
Form GW 8 _____
Form GW 9 _____

1) OWNER:
Person having well drilled City of Dimmitt (Name) Address Dimmitt, Texas (Street or RFD) (City) (State)

Landowner Same (Name) Address _____ (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Castro Labor _____ League _____ Abstract No. _____

NW¼ NE¼ SW¼ SE¼ of Section _____ Block No. _____ Survey _____
(Circle as many as are known)

miles in _____ (NE, SW, etc.) direction from _____ (Town)

NORTH

Directly behind city hall.

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 ☒ 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 28" in. Depth drilled 410 ft. Depth of completed well 410 ft. Date drilled 1/26/67

All measurements made from _____ ft. above ground level.

| 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 |
| 275 | 280 | Sand & Clay & Come 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 wall ☐ Gravel packed ☐ Other ☐
Under reamed ☐ Open hole ☐

8) WATER LEVEL:
Static level 200 ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

9) CASING:
Type: old ☐ New ☒ Steel ☐ Plastic ☐ Other ☐
Cemented from _____ ft. to _____ ft.

10) SCREEN:
Type _____
Perforated ☒ Slotted ☐

| Diameter (inches) | Setting From (ft.) | Setting To (ft.) | Gage |
|---|---|---|---|
| 16" | 0 | 410 | |

| Diameter (inches) | Setting From (ft.) | Setting To (ft.) | Slot size |
|---|---|---|---|
| | 200 | 16 Row 1/8 | |
| | 10 | Blank | |
| | 210 | to 400 | |

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 Date _____
Temperature of water _____
Was a chemical analysis made? ☐ Yes ☐ No
Did any strata contain undesirable water? ☐ Yes ☐ No
Type of water? _____ depth of strata _____

12) PUMP DATA:
Manufacturer's Name _____
Type _____ H.P. _____
Designed pumping rate _____ gpm ☐ gph ☐
Type power unit _____
Depth to bowls, cylinder, jet, etc., _____ ft. below land surface.

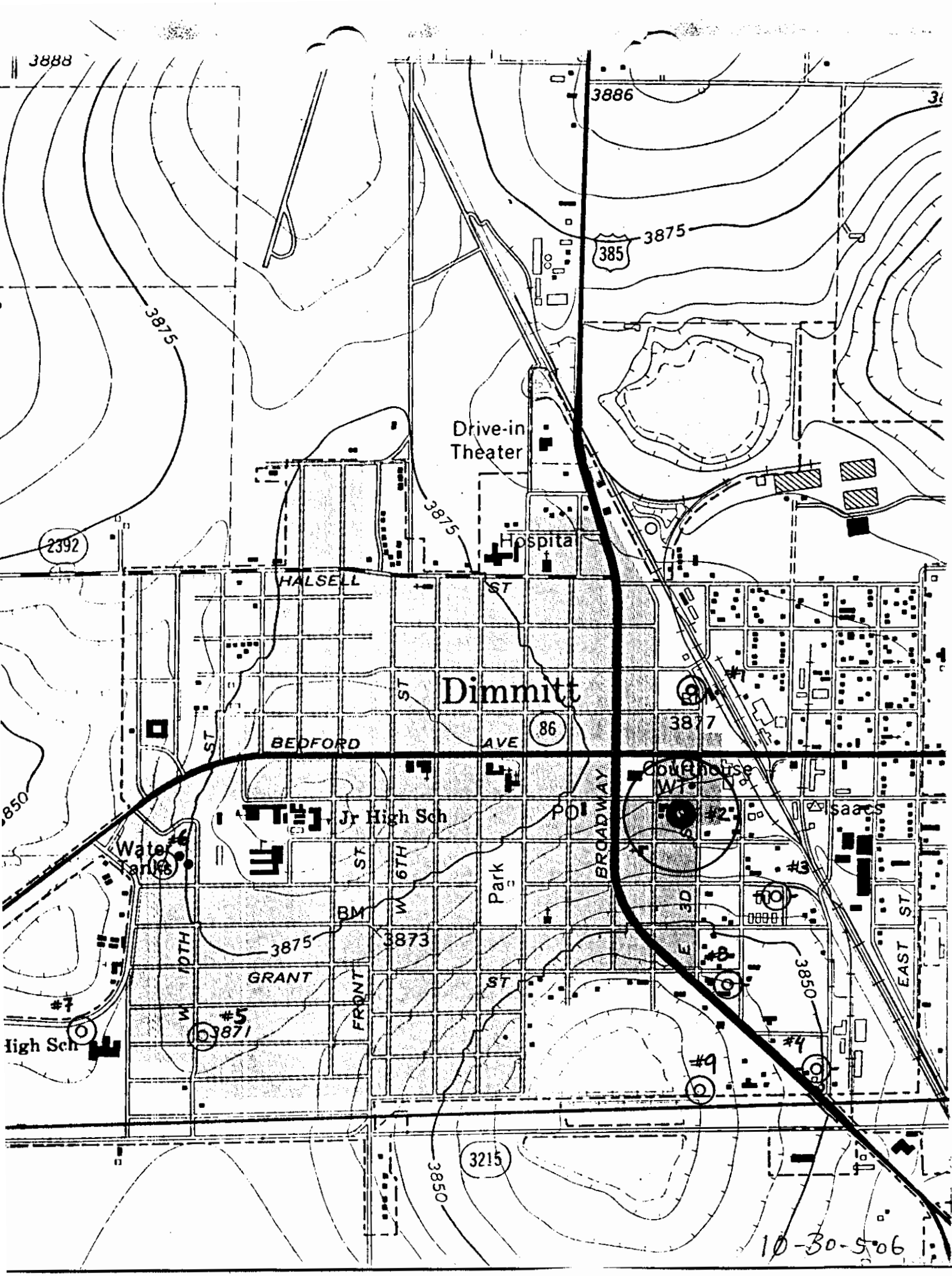
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME J.D. Kirkland (Type or Print) Water Well Drillers Registration No. #2

Address P.O. Box 926 (Street or RFD) Hereford (City) Texas (State)

(Signed) J.D. Kirkland (Water Well Driller) West Texas Drilling Company (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available. 10-30-506


3888
3886
3875
385
Drive-in
Theater
2392
Hospital
HALSELL
ST
Dimmitt
BEDFORD
AVE
86
3877
Courthouse
WT
Jr High Sch
POI
Isaacs
Water
Tanks
#6
#1
#2
#3
#4
#5
#7
#8
#9
BM
3873
3871
GRANT
FRONT
BROADWAY
Park
6TH
EAST
3850
3215
High Sch
10-30-506

## Water Quality Sampling Run

SWN: 10-30-506
County: CASTRO
Aquifer(s): 121 OGLL

Name: CITY OF DIMMITT
Address: ATTN: KAREN
P.O. BOX 146 DIMMITT TX 79027

Sample No. 729
Date: 3-12-1996
By: John ASENSIO

| | Bottle 1 | Bottle 2 | Bottle 3 | Bottle 4 | Bottle 5 | Bottle 6 | Bottle 7 | Total SUB-Samples |
|---|---|---|---|---|---|---|---|---|
| | 1 liter Anions | 1 liter Cations | 1 liter Radioactivity | 500 ml Nitrate | 1 Qt.(glass) (TOC)Organics | | | |
| Preserve with: | | 2 ml $HNO_3$ (Nitric) | 2 ml $HNO_3$ (Nitric) | 1 ml $H_2SO_4$ (Sulfuric) | | | | ~~All filtered~~ 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 _____ mg/l
Bicarbonate (00453) _____ meq/l _____ mg/l
Total Cations(+) _____
Total Anions (-) _____
Total Hardness (46570) _____
Dissolved Solids(70301) _____

Time in: 11:30
Time out: _____
Weather _____
Outside Temp: _____
Sampling point:

Starting pH _____
_____ ml. of 0.02N to
_____ ml. of Sample
Ending pH _____

| | | | | | | | ml. | pH | ml. | pH | ml. | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Time: | | | | | | | | | | | | |
| pH: | | | | | | | | | | | | |
| Temp: | | | | | | | | | | | | |
| Eh: | | | | | | | | | | | | |
| Cond. | | | | | | | | | | | | |

other notes:
Well # 2

# 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** | 0.7 | mg/l | **Phenol Alk $CaCO_3$** | 0 | mg/l |
| **Magnesium** | 24.0 | mg/l | **Total Alk $CaCO_3$** | 260.0 | mg/l |
| **Calcium** | 34.0 | mg/l | | | |
| **Sodium(calculated)** | | mg/l | **Specific Cond.** | | |
| **Potassium** | 6.0 | mg/l | **pH** | 6.79 | |
| **Sulfate** | 50.0 | mg/l | **Eh** | | |
| **Chloride** | 30.0 | mg/l | **Temperature** | | °C |
| **Fluoride** | 2.68 | mg/l | | | |
| **Nitrate (as N)** | | mg/l | X 4.43 = **Nitrate (as $NO_3$)** | | 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 ffrom a HACH DR2000 spectrophotometer, operated by the Hydrographic Monitoring Section of the Texas Water Development Board

# TEXAS WATER DEVELOPMENT BOARD

## WELL SCHEDULE

State Well No. 10 30 504 (10–17) Previous Well No. (19–26) County Castro 069 (28–30)

River Basin Brazos 12 (32–33) Zone 1 (35) Lat. 34 32 59 (37–42) Long. 102 18 34 (44–50) Source of Coord. 1 (52)

Owner's Well No. Old # 1 Location ____ 1/4, ____ 1/4, Section ____, Block ____, Survey ____

Jones Street and 3RD

Owner City of Dimmitt (10–31)

Driller D L McDonald (33–52)

Address ____ Address ____

Tenant ____ Address ____

Date Drilled ____ ____ 1945 (10–17) Depth 395 (19–23) Source of Depth Datum R (25) Altitude 3868 (27–30) Source of Alt. Datum M (32)

Aquifer Ogallala 121OGLL (34–41) Well Type U (43) User 230800 (45–53)

Well Construction — Const. Method ____ (55) Casing Material ____ (57) Screen Material ____ (59) Completion ____ (61)

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from ____ to ____

| Diam. (in.) | From | To |
|---|---|---|
| C 15 | 0 | 395 |

Lift Data Pump Mfr. ____ Type ____ (63) No. Stages ____

Bowls Diam. ____ in. Setting ____ ft. Column Diam. ____ in. Length Tailpipe ____ ft.

Motor Mfr. ____ Fuel or Power ____ (65) Horsepower ____ (67–73)

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 Unused U (10) Secondary Use ____ (12) Tertiary Use ____ (14)

Other Data Available — Water Level M (16) Water Quality ____ (18) Logs 1955 (20–25) Other Data ____ (27–31)

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 (33–40) Reporting Agency 01 (42–43)

Remarks (10–46 / 44–80)

City well abandoned and destroyed. Location Approximated.

Well Schedule In TWDB File Y (45)

Aquifer Ogallala

Well No. 10-30-504

TWDB-0409 (02-26-88)

9-185—July 1935
Revised

10-30-504

# UNITED STATES
# DEPARTMENT OF THE INTERIOR
## GEOLOGICAL SURVEY
## WATER RESOURCES BRANCH

30 504

WELL SCHEDULE

Date March 21, 19 41 Field No. 1

Record by Rettaman Office No.

Source of data City Records

1. *Location:* State Texas County Castro

Map

¼ ¼ sec. T N S R E W

2. *Owner:* City Dimmitt Address

Tenant Address

Driller D. L. McDonald Address

3. *Topography*

4. *Elevation* ft. above below

5. *Type:* Dug, drilled, driven, bored, jetted 19 45

6. *Depth:* Rept. 395 ft. Meas. ft.

7. *Casing:* Diam. 16 in., to in., Type

Depth 395 ft., Finish

8. *Chief Aquifer* From ft. to ft.

Others

9. *Water level* ft. rept. meas. 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, PS., RR., Ind., Irr., Obs.

Adequacy, permanence

13. *Quality* Temp °F

Taste, odor, color Sample Yes No 5/20/55

Unfit for

14. *Remarks:* (Log, Analyses, etc.) City has log

also Abandoned Stock

Radio Element # 16

9-260
(January 1950)

UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

10-30-504

Field No. 16

## ANALYTICAL STATEMENT

[Parts per million]

CASTRO COUNTY

Location Dimmit, Texas Jones and 3 rd 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 Dimmit, Texas
WBF: 170 below LSD

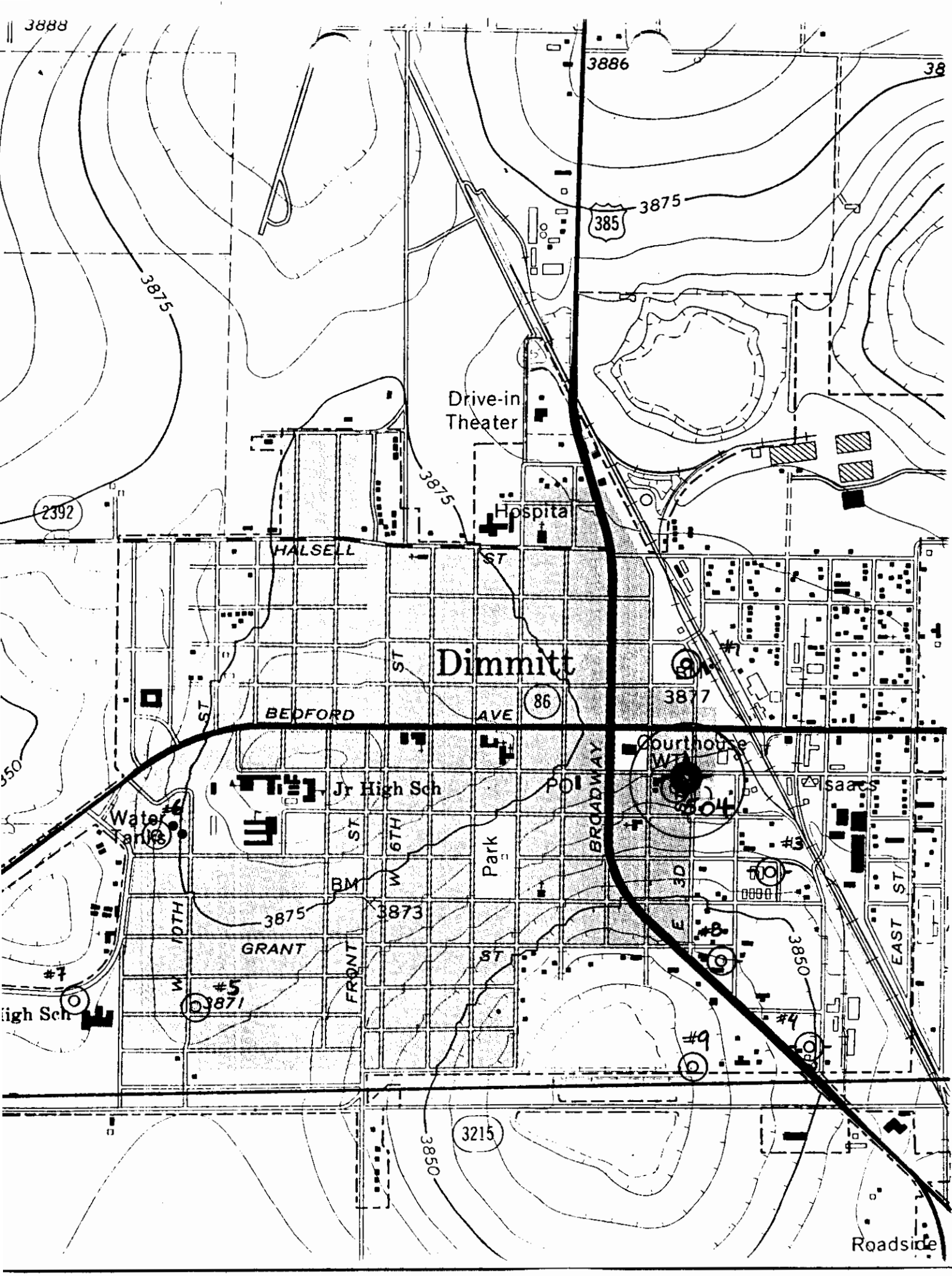
Chemist
Lab. No. Denver 673
Collector D.R. Frazor

Date of collection 6/20/55
Use public supply
Temperature (°F) 64
Color pH 7.8
Suspended matter
Hardness as $CaCO_3$
N. C. 0 Total 234
Ignition loss
Dissolved solids 362
Specific conductance at 25°C (micromhos) 553

| | |
|---|---|
| Aluminum(Al) | 0.2 |
| Fe(total) | 0.02 |
| Manganese(Mn) | 0.00 |
| Phosphate ($PO_4$) | 0.0 |

| | |
|---|---|
| $SiO_2$ | 53 |
| Fe | |
| Ca | 46 |
| Mg | 29 |
| Na | 27 |
| K | 8.0 |
| $CO_3$ | 0 |
| $HCO_3$ | 287 |
| $SO_4$ | 35 |
| Cl | 16 |
| F | 2.0 |
| $NO_3$ | 9.8 |
| Sum | 367 |

16—55248-4


3888
3886
3875
385
Drive-in
Theater
Hospital
2392
HALSELL
ST
Dimmitt
BEDFORD
AVE
86
3877
Courthouse
WT
Jr High Sch
POI
Isaacs
Water
Tanks
#6
#1
#3
#10
#8
#7
#5
3871
#4
#9
3873
BM
Park
BROADWAY
GRANT
FRONT
6TH
10TH
EAST
3850
3215
Roadside

# Texas Water Development Board
## Well Schedule

groundwater resources

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 Well #3**

Driller: **Walco Drilling Co.**

Aquifer ID: **Ogallala**

Aquifer Code: **121OGLL**

**OGALLALA FORMATION**

Depth (ft): **410**

Elevation (ft): **3861**

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**

**1 measurement**
**1970**
**-209**

Water Quality: **N**

Other Data:

Logs: **D**

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



update

# S WATER DEVELOPMENT BOAR

## WELL SCHEDULE

State Well No. 10 30 507 (10–17) Previous Well No. 3163 (19–26) County Castro 069 (28–30)

River Basin Brazos 12 (32–33) Zone 1 (35) Lat. 34 32 50 (37–42) Long. 102 18 25 (44–50) Source of Coord. 1 (52)

Owner's Well No. #3 Location ____ 1/4. ____ 1/4, Section 25, Block M, Survey ____

Owner City of Dimmitt (10–31)

Address ____

Tenant ____

Driller Walco Drilling, Inc. (33–52)

Address 212 E New York Street

Address Hereford

Date Drilled 06 06 1970 (10–17) Depth 410 (19–23) Source of Depth Datum D (25) Altitude 3858 (27–30) Source of Alt. Datum M (32)

Aquifer Ogallala 121ØGLL (34–41) Well Type W (43) User 230800 (45–53)

Well Construction: Const. Method Mud Rotary H (55) Casing Material Steel S (57)

Screen Material Steel S (59) Completion Perf 1/8" P (61)

Lift Data: Pump Mfr. ____ Type TURBINE T (63) No. Stages 5

Bowls Diam. 11 in. Setting 370 ft Column Diam. 6 in. Length Tailpipe ____ ft.

Motor Mfr. ____ Fuel or Power Electric E (65) Horsepower 50.00 (67–73)

Yield: Flow ____ GPM Pump 560 GPM Meas. (Rept.) Est. ____ Date ____

Performance Test: Date 6-15 1970 Length of Test ____ Production 440 GPM

Static Level 209 ft. Pumping Level 251 ft Drawdown 42 ft. Sp. Cap. 10 GPM/ft.

Quality (Remarks on Taste, Odor, Color, Etc.) ____

Water Use: Primary Use P.S. P (10) Secondary Use ____ (12) Tertiary Use ____ (14)

Other Data Available: Water Level M (16) Water Quality N (18) Logs D (20–25) Other Data (27–31)

Water Levels: Date 06 06 1970 Meas. 209.00 ft. (+) Above (-) Below Landsurface (well pumping 1189)

Date ____ Meas. ____ ft. (+) Above (-) Below Landsurface

Recorded By P. Christian Date Record Collected or Updated 08 16 1989 (33–40) Reporting Agency 01 (42–43)

Remarks: City Well #3. Reported yield 440 GPM with 42 Feet drawdown in 1970.

Well Schedule In TWDB File Y (45)

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from ____ to ____

| | Diam. (in.) | From | To |
|---|---|---|---|
| C | 16 | 0 | 250 |
| S | 16 | 250 | 400 |
| C | 16 | 400 | 410 |

Aquifer Ogallala

Well No. 10-30-507

TWDB-0409 (02-26-88)

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. [illegible]
Located on map
Received:

1) OWNER:
Person having well drilled City of Dimmitt (Name) Address Dimmitt, Texas (Street or RFD) (City) (State)

Landowner Same (Name) Addr ss (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Castro a city limit miles in (N.E., S.W., etc.) direction from Dimmitt (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

North

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor League
Block M Survey
Abstract No.
(NW¼ NE¼ SW¼ SE¼) of Section 25

3) TYPE OF WORK (Check):
X New Well | Deepening | Reconditioning | Plugging

4) PROPOSED USE (Check):
Domestic | Industrial | X Municipal | Irrigation | Test Well | Other

5) TYPE OF WELL (Check):
X 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 |
| 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 |
| 405- | 410 | Red bed |

(Use reverse side if necessary)

9) Casing:
Type: Old | New | Steel | Plastic | Other
Cemented from ft. to ft.

| Diameter (inches) | Setting From (ft.) | To (ft.) | Gage |
|---|---|---|---|
| 16" | 250 | 400 | 32 row 1/8" |

10) SCREEN:
Type
Perforated | Slotted

| Diameter (inches) | Setting From (ft.) | To (ft.) | Slot Size |
|---|---|---|---|

7) COMPLETION (Check):
X Straight wall | Gravel packed | Other
Under reamed | Open Hole

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.

11) WELL TESTS:
Was a pump test made? Yes X 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

12) WATER QUALITY:
Was a chemical analysis made? Yes No X
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. (Type or Print) Water Well Drillers Registration No. 247

ADDRESS 212 E. New York (Street or RFD) Hereford, (City) Texas (State) 79045

(Signed) Billy F Wall (Water Well Driller) Walco Drilling, Inc. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-GM-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 Received 7-7-70
Permit Size of Pump 6 Maximum in Yield 560 GPM

1. Land Owner City of Dimmitt Address 201 E Howard Hereford Texas

2. Well located _____ miles N, _____ miles S, _____ miles E, _____ miles W of town of _____

3. County Castro Labor _____ League _____ Abstract No. _____

4. NW¼ NE¼ SW¼ (SE¼) Section 25 Block 2 14-10-T 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 Layers |
| 4 | 56 | Clay & Caliche | 380 | 394 | Red Sand & Clay |
| 56 | 70 | Sand | 394 | 405 | Gravel & Sand |
| 70 | 110 | Sand & Gyp Rock | 405 | 410 | Red Bed |
| 110 | 150 | Sand | | | |
| 150 | 210 | Sand & Some Gyp Rock | | | |
| 210 | 295 | Sand | | | |
| 295 | 320 | Clay & Sand | | | |
| 320 | 350 | Sand - Sandy 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 Box 821 Hereford Tex 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 ~~7-5/8~~ 16" Slot Number of rows 52

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 11½" Number of stages 5 Pump discharge pipe: Size 6 (251) in.

10. Depth to water level 209 ft. Pump yield 440 GPM. Pumping level: 320 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____ Horsepower 50

Signature _____
LANDOWNER OR AGENT TITLE ADDRESS

Billy F Wall # 247
R Paul Cannaday # 57

GW-3 received Sept. 14, 1970

☑ 1-10 ☑ 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

3163

Field Well No. 3457
Time of Filing 10:10 A.M.
Date Application Filed 4-24-70
Expiration Date 8-24-70
Date Recommended By County Committee 4-25-70
Size of Pump 6 Maximum Yield 560 GPM

**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)**

I, City of Dimmitt (NAME OF LANDOWNER) 201 East Jones Dimmitt, Tex (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 Castro

NW¼, NE¼, SW¼, SE¼ Section 25 Block M-10A (MARK OUT ONES THAT DO NOT APPLY)

Survey _____ Abstract _____

Township _____ Range _____

Labor _____ League _____

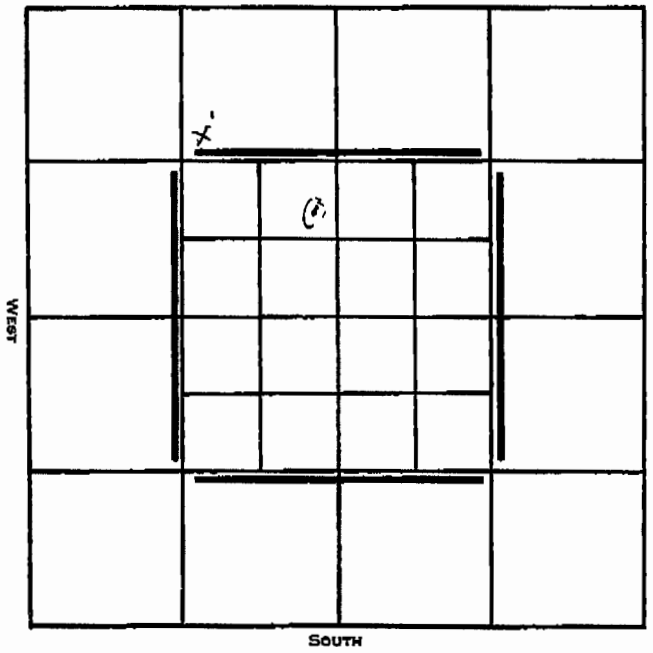
Proposed Use (Municipal-Industrial-Irrigation) (MARK OUT ONES THAT DO NOT APPLY)

Drilling to start about Immed., 19____

This well will be located _____ miles N or S and _____ miles E or W of the town of Dimmitt Tex. (MARK OUT ONE THAT DOES NOT APPLY)

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 is 720 measured yards from (N-S) S and 480 measured yards from (E-W) E (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. 1 720 measured yards from proposed well site.
Owned by Owner
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. Tabb (SIGNATURE LANDOWNER OR AGENT) City Mgr. (TITLE) 201 E. Jones Dimmitt Tex (ADDRESS)

This permit recommended by County Committee, subject to the rules for spacing from existing wells and/or authorized well site.

1 Dale Maxwell 2 John Gilbreath 3 Bob Anthony

☑ Pinned on County Map ☑ Deposit Received ☐ Refunded Check No. _____

SMITH PRINTING CO. • DAIL PO 3-8813

10-30-557

updat

**WQ FY 2024**

# TWDB Water Quality Field Data Sheet

Newly Inventoried Well: N

SWN: 10-30-507
County: Castro
Aquifer Code: 121GLL
Aquifer: Ogallala

Name: City of Dimmit
Address: PO Box 146
Dimmit, TX 79027
Attention:
Well Name or #: Town #3

ID Number: 323
Date: 6-11-24
Sampler(s): CC

| (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 | Atrazine | | | Sr-87/Sr-86 | Tritium | C14/C13 corr | |
| RED | | YELLOW | S-RE900-A | | | | | | O-18 & H2 | |
| $HNO_3$ | ICE | ICE + $H_2SO_4$ | $HNO_3$ 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* | | | |

**Calibration Verification Readings**
meter: Orion Star A Series

| | | |
|---|---|---|
| pH | SLOPE = | 98.3 % |
| | (First) 7 = | 7.02 |
| probe: | 4 = | 4.01 |
| 9107BN Orion | 10 = | 10.06 |
| Conductivity | 500 = | 500 |
| | 1000 = | 1000 |
| probe: Orion | First 1413 = | 1413 |
| 013010MD | 2000 = | 2000 |

Time In: 11:05
Time Out: 11:40

Water Level (LSD): —
M.P. (Feet) =
W.L. remark: —

Pumping time: 11:05
Sampling Point: ~~FAW~~ FAW

Well Use: P
Lift: Sub
Power: Elec

FIELD GPS readings Accuracy (ft ±): ~10
Latitude: 34.547222
Longitude: -102.307227

Casing Type: Steel
Casing Size: 6"

Sample Time: 11:16
Filter pressure: hand pump / line / spring sampler

**Field Alkalinity Titration**

| | |
|---|---|
| 7.76 | Start pH |
| 4.54 | End pH |
| 50 | mL Sample Size |
| — | mL Acid Phenol ( > 8.3) |
| 12.3 | mL Acid Total (to pH 4.5) |

mL acid added x 20 = Alkalinity

Phenol Alkalinity (82244): — mg/L
Total 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) | 7.63 | 7.58 | 7.60 | | | | | (00400) |
| Temp (° C) (± 3%) | 17.9 | 17.7 | 17.7 | | | | | (00010) |
| Conductivity (µS/cm) (3%) | 902.6 | 835 | 837.7 | | | | | (00094) |

Notes:

Environmental Laboratory Services
The Solution Lab

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

## Analytical Results

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | TWDB | **Date Collected:** | 06/11/2024 11:16 | **Matrix:** | Aqueous |
| **Lab ID:** | Q2425824004 | **Date Received:** | 06/14/2024 15:32 | **Sample Type:** | SAMPLE |
| **Sample ID:** | 1030507 | **Location:** | | | |
| **Project ID:** | TWDB CAN | **Facility:** | | | |
| | | **Sample Point:** | | | |

### *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 (CaCO3) | 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 | |



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Environmental Laboratory Services
The Solution Lab

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

## Analytical Results

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | TWDB | **Date Collected:** | 06/11/2024 11:16 | **Matrix:** | Aqueous |
| **Lab ID:** | Q2425824004 | **Date Received:** | 06/14/2024 15:32 | **Sample Type:** | SAMPLE |
| **Sample ID:** | 1030507 | **Location:** | | | |
| **Project ID:** | TWDB CAN | **Facility:** | | | |
| | | **Sample Point:** | | | |

### *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 | |



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LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

## Analytical Results

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | TWDB | **Date Collected:** | 06/11/2024 11:16 | **Matrix:** | Aqueous |
| **Lab ID:** | Q2425824004 | **Date Received:** | 06/14/2024 15:32 | **Sample Type:** | SAMPLE |
| **Sample ID:** | 1030507 | **Location:** | | | |
| **Project ID:** | TWDB CAN | **Facility:** | | | |
| | | **Sample Point:** | | | |

***SILICA (SM4500-SiO2-C, Silica)***

| Parameter | Results | Units | MRL | LOD | ML | DF | Prepared | By | Analyzed | By | Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Silica as SiO2, 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 | |



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# STATE OF TEXAS WELL REPORT for Tracking #13422

| | | | |
|---|---|---|---|
| Owner: | **Texas Dept. of Transportation** | Owner Well #: | **DW-B2** |
| Address: | **125 E. 11th Street<br>Austin, TX 78701** | Grid #: | **10-30-5** |
| Well Location: | **905 E. Bedford<br>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**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **5** | **0** | **70** |

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **2** | **1** |
| | **2** | **70** | **8** |

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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **3** | **Brown Top Soil** |
| **3** | **70** | **Brown Sandy Clay & Brown Sand** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **No Data** | | | |

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

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

Please include the report's Tracking Number 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<br>Austin, TX 78701** | Grid #: | **10-30-5** |
| Well Location: | **905 E. Bedford<br>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**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **5** | **0** | **6** |

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **2** | |
| **2** | **6** | |

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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **3** | **Brown Top Soil** |
| **3** | **6** | **Brown Sandy Clay & Brown Sand** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **No Data** | | | |

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**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<br>Austin, TX 78701** | Grid #: | **10-30-5** |
| | | Latitude: | **34° 33' 04" N** |
| Well Location: | **905 E. Bedford<br>Dimmitt, TX** | Longitude: | **102° 18' 06" W** |
| Well County: | **Castro** | 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**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **6** | **0** | **20** |

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| 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:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **4** | **Brown Top Soil** |
| **4** | **20** | **Brown Clay and Sandy Clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **No Data** | | | |

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**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** | Owner Well #: | **1** |
| Address: | **PO box 136<br>Nazareth, TX 79063** | Grid #: | **10-30-5** |
| | | Latitude: | **34° 33' 07" N** |
| Well Location: | **2444 HWY 86<br>Nazareth, TX 79603** | Longitude: | **102° 17' 47" W** |
| Well County: | **Castro** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **2/2/2013** Drilling End Date: **2/2/2013**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **9.875** | **0** | **336** |

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

Borehole Completion: **Filter Packed**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|---|
| Filter Pack Intervals: | **115** | **336** | **Gravel** | **1/4"** |

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **2** | **115** | **1.5 yards** |

Seal Method: **Cement**

Sealed By: **Driller**

Distance to Property Line (ft.): **10**

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

| 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** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| 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** | | | |

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**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

S 133-1 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: Mfgr. Type

No. Stages, Bowls 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.

CASING & BLANK PIPE

Cemented From ft. to ft.

| Diam. (in.) | Type | Setting, ft. from | to |
|---|---|---|---|
| 16 | STEEL | Surf | 398 |

11. Water Level: ft. rept. meas. 19 above below which is ft. above below surface.

ft. rept. meas. 19 above below which is ft. above below surface.

ft. rept. meas. 19 above below which is ft. above below surface.

ft. rept. meas. 19 above below which is ft. above below 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:

WELL SCREEN

Screen Openings

| Diam. (in.) | Type | Setting, ft. from | to |
|---|---|---|---|
| 16 | Perforated | 238 | 398 |
| CASING | Perforated with ½" slots 4 per row | | |

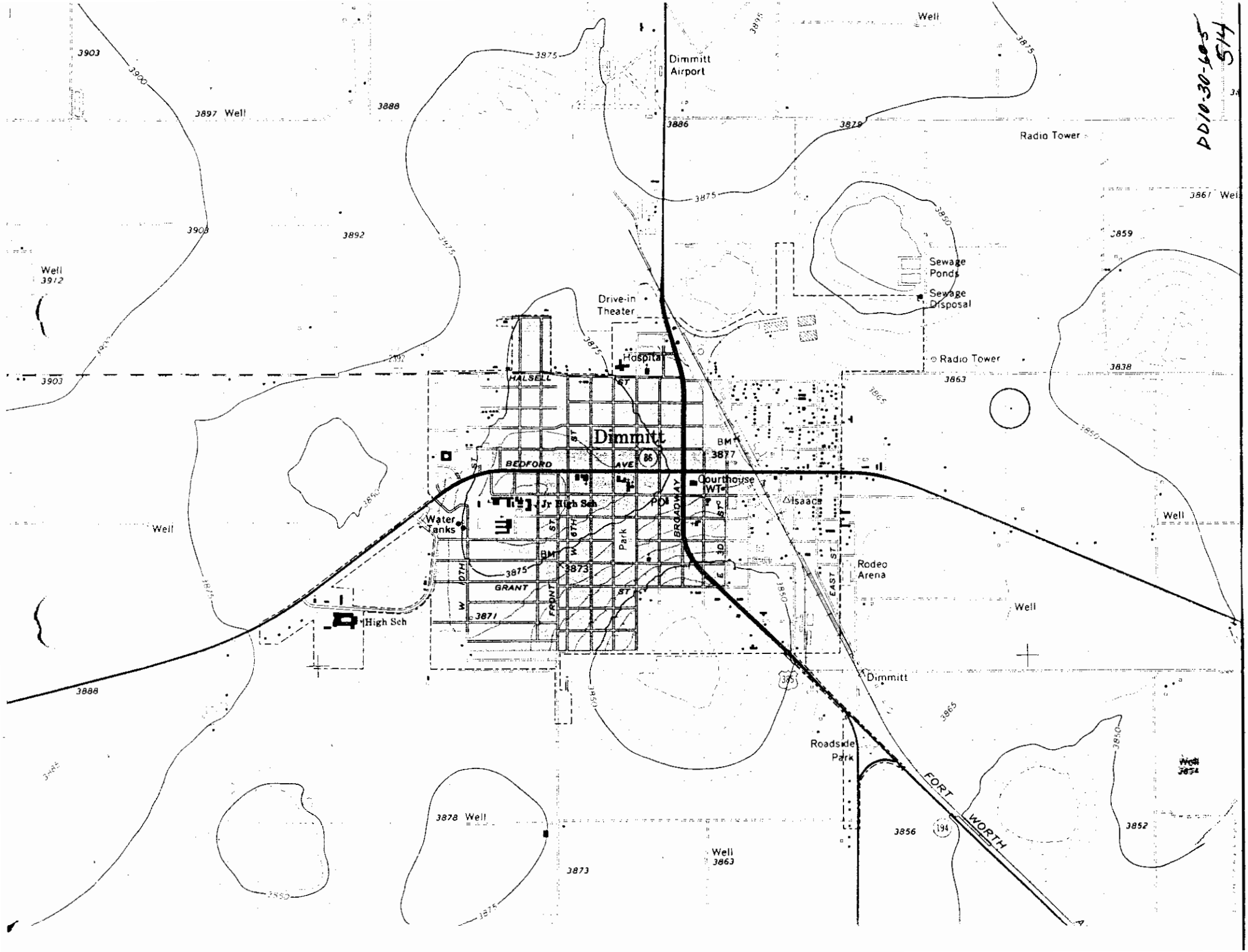
RECEIVED
NOV 6 1978

Central Records
Texas Dept. of Water Resources

TWDBE-WD-2

(Sketch)

10-30-514


DD10-30-605
514
Dimmitt
Dimmitt Airport
Radio Tower
Sewage Ponds
Sewage Disposal
Drive-in Theater
Hospital
Courthouse
WT
Jr High Sch
High Sch
Water Tanks
Park
Rodeo Arena
Roadside Park
Isaacs
Well
HALSELL ST
BEDFORD AVE
BROADWAY
GRANT
FRONT ST
6TH ST
EAST ST
FORT WORTH
3903
3900
3897 Well
3888
3886
3879
3875
3861 Well
3908
3892
3859
Well 3912
3850
3838
3863
3877
3873
3871
3865
3856
3852
3878 Well
Well 3863
Well 3854
385
194

d original copy by
tified mail to the
as Water Development Board
O. Box 13087
tin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 10-30-6P
Located on map yes
Received: 7-6-76
dlc

OWNER:
Person having well drilled Warren L. Fish (Name) Address Box 664 Dimmitt, Texas (Street or RFD) (City) (State)

Landowner _____ (Name) Address _____ (Street or RFD) (City) (State)

LOCATION OF WELL:
County Castro, 1 miles in E (N.E., S.W., etc.) direction from Dimmitt (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

North ↑

(Use reverse side if necessary)

or

Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block M Survey _____

Abstract No. _____

161.5 acres (~~NW¼ NE¼ SW¼ SE¼~~) of Section 7

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

WELL LOG:
Diameter of hole 12 in. Depth drilled 398 ft. Depth of completed well 398 ft. Date drilled 5-2-76

All measurements made from 0 ft. above ground level.

| From (ft.) | To (ft.) | Description and color of formation material |
|---|---|---|
| 3 | Surface | |
| 12 | Caliche | |
| 35 | Clay | |
| 38 | Rock | |
| 76 | Clay | |
| 105 | Sandy Clay | |
| 127 | Sand | |
| 162 | Clay | |
| 173 | Sandstone | |
| 234 | Sand | |
| 241 | Caliche | |
| 247 | Sandstone | |
| 299 | Sand | |
| 316 | Sandrock | |
| 322 | Sandrock | |
| 341 | Clay | |
| 341 | 360 Sand | |
| 360 | 392 Gravel | |
| 392 | 394 Clay | |
| 394 | 398 Red Bed | |

(Use reverse side if necessary)

9) Casing:
Type: Old New ✓ Steel Plastic Other
Cemented from _____ ft. to _____ ft.

| Diameter (inches) | Setting From (ft.) | Setting To (ft.) | Gage |
|---|---|---|---|
| 16 | 0 | 398 | |

10) SCREEN:
Type _____
Perforated ✓ Slotted

| Diameter (inches) | Setting From (ft.) | Setting To (ft.) | Slot Size |
|---|---|---|---|
| | 238 | 392 | 10" |

COMPLETION (Check):
Straight wall ✓ Gravel packed Other
Under reamed Open Hole

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.

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 _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yea 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 (Type or Print) Water Well Drillers Registration No. 1307

ADDRESS 309 S E 7th (Street or RFD) Dimmitt (City) Texas (State)

Signed) A W Fish (Water Well Driller) A W Fish (Company Name)

514
DD 10-30-605

Please attach electric log, chemical analysis, and other pertinent information, if available.

Additional instructions on reverse side.

6E-WD-8

...AL–DISTRICT OFFICE COPY

FOR USE OF COMMITTEEMEN
Field Well No. 4005
Date Received 7-27-76
Permit Size of Pump 6 Maximum in Yield 560 GPM

*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)**

1. Land Owner Vernice K. Green Address Box 664, Dimmitt

2. Well located ___ miles N, ___ miles S, 1 miles E, ___ miles W of the town of Dimmitt

3. County Castro Labor ___ League ___ Abstract No. ___

4. ~~NW¼ NE¼ SW¼ SE¼~~ 161.5 acres 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. Trish – 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 ½" 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 255' ft. Pump yield 560 GPM. Pumping level: 290' ft.

11. Power Unit: Electrical, ~~Natural Gas, Butane, Other~~ ___ Horsepower ___

Signature Vernice Green LANDOWNER OR AGENT By L.E. Green TITLE owner ADDRESS Box 664 Dimmitt Texas

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. _____
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-[illegible]5 14
S-B3-1-DD Well No. 4005
Date Collected 08-15-78

Location NW¼, NW¼, Labor 3, BIK m Sample No. _____ By HPUWCD#1 B.BAILES
Source (type of well) _____ Owner Vernice K. Green Box 664, Dimmitt
Date Drilled 5-20-76 Depth 378 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 gated pipe in field Appearance ☒ clear ☐ turbid ☐ colored ☐ other
Use Irrigation Remarks _____

(FOR LABORATORY USE ONLY)

## CHEMICAL ANALYSIS

Laboratory No. 348759 Date Received AUG 23 1978 Date Reported SEP 29 78

| | MG/L | ME/L |
|---|---|---|
| Silica | 66 | |
| Calcium | 39 | 1.97 |
| Magnesium | 29 | 2.39 |
| Sodium | 49 | 2.13 |
| Total | | 6.49 |
| ☐ Potassium | | |
| ☐ Manganese | | |
| ☐ Boron | | |
| 3/ ☐ Total Iron | | |
| ☐ (other) _____ | | |

%Na _____
SAR _____
RSC _____

| | MG/L | ME/L |
|---|---|---|
| Carbonate | 2 | 0.08 |
| Bicarbonate 154 | 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 |
| 1/ Dissolved Solids (~~sum in~~ MG/L) 180°C | | 396 |
| Phenolphthalein Alkalinity as C aCO3 (0.04) | | 2 |
| Total Alkalinity as C aCO3 (5.20) | | 260 |
| Total Hardness as C aCO3 (4.36) | | 218 |
| 2/ Nitrogen Cycle | | |
| Ammonia - N | | |
| Nitrite - N | | |
| Nitrate - N | | |
| Organic Nitrogen | | |

Specific Conductance (micromhos/cm3) 570
Diluted Conductance (micromhos/cm3) 5 x 135 = 675

" ☐ " items will be analyzed if checked.

1/ 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.
2/ Nitrogen cycle requires separate sample.
3/ Total Iron requires separate sample.

Analyst _____ Checked By _____

TDWR-0148

# STATE OF TEXAS WELL REPORT for Tracking #646929

| | | | |
|---|---|---|---|
| Owner: | **Florez Ditching** | Owner Well #: | **1** |
| Address: | **1465 East Hwy 86<br>Dimmitt, TX 79063** | Grid #: | **10-30-6** |
| Well Location: | **1465 East Hwy 86<br>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**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **12** | **0** | **379** |

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

Borehole Completion: **Perforated or Slotted**

| | *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|---|
| Annular Seal Data: | **0** | **10** | **Cement 10 Bags/Sacks** |

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **230**

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:

| 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: **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

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **2** | **Top Soil** |
| **2** | **8** | **Caliche** |
| **8** | **38** | **Red Clay** |
| **38** | **218** | **Sand** |
| **218** | **240** | **Brown Clay** |
| **240** | **276** | **Sand** |
| **276** | **285** | **Red Clay** |
| **285** | **297** | **Sand** |
| **297** | **310** | **Rock** |
| **310** | **355** | **Red Sandclay** |
| **355** | **360** | **White Sand Clay** |
| **360** | **367** | **Sand** |
| **367** | **375** | **Brown Sandclay** |
| **375** | **379** | **Red Bed** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **8** | **Blank** | **Used Steel** | **250** | **0** | **304** |
| **8** | **Perforated or Slotted** | **Used Steel** | **250 0** | **304** | **379** |

**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 DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

Aquifer(s) Ogallala Project No. _____ State Well No. 10-30-606

Elevation No./Owner's Permit Well No. 3063 County Castro

1. Location: South ½ Tract 15, Block M, Survey _____, Lat. 34-33-22, Long. 102-17-12

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 19 69; 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)

CASING, BLANK PIPE & WELL SCREEN
Cemented From _____ ft. to _____ ft.

| Diam. (in.) | Type | Setting (feet) from | to |
|---|---|---|---|
| 16 | NEW | surface | 370 |
| | | | |
| CASING | Perforated | with | |
| ¼" | slots | 195 | 370 |

RECEIVED
AUG 20 1981
CR/TDWR

13. Water Level(s): _____ ft. rept. meas. _____ 19___ above below _____ which is _____ ft. above below Land Surface

_____ ft. rept. meas. _____ 19___ above below _____ which is _____ ft. above below 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: Amstar #1 Records Date: 8-3-81

16. Remarks: _____

17. Location or Sketch:

TDWR-0308

W/L Obs. Well ___ W/Q Obs. Well ✓
State Well No. 10-30-606

FORM NO. 359R-LW

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 of Pump _____ Maximum 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: 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 | 2 | | | | |
| 2 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

RECEIVED
LUBBOCK, TEXAS
MAR 11 1969
HI-PLAINS UNDERGROUND
WATER CONS. DIST. NO. 1

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 _____ 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 16 in Total casing length 240 ft.

7. Casing perforations: from 190 ft. to 240 ft. Size _____. Number of rows 6

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.

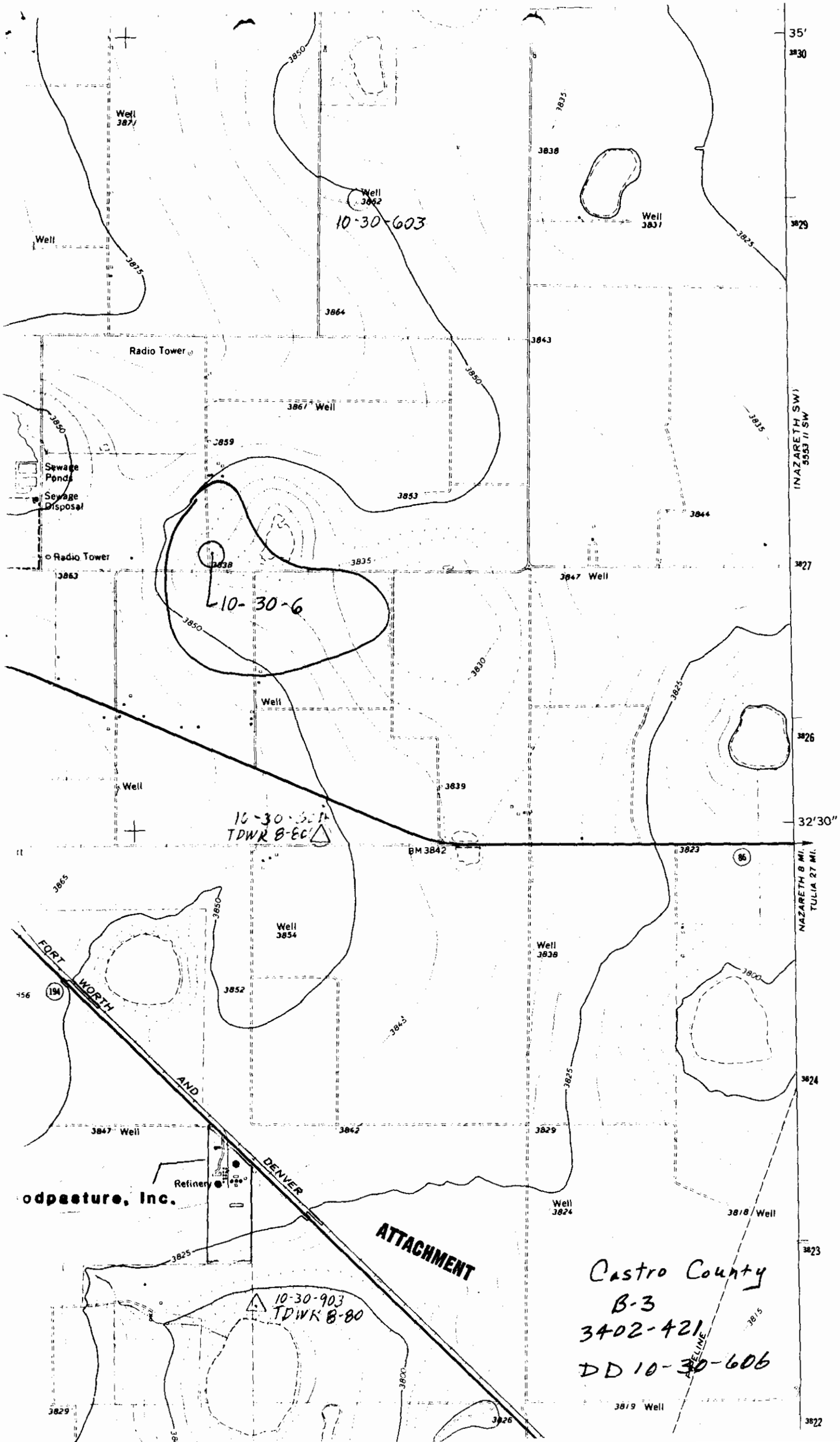
11. Power Unit: Electrical, Natural Gas, Butane, Other _____ Horsepower _____

Signature _____

LANDOWNER OR AGENT TITLE ADDRESS

**ATTACHMENT**

DD 10-30-606




Castro County
B-3
3402-421
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. _____

TDWR-HPUWCD#1 Special

# 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

County 035 Castro
State Well No. 10-30-606
Well No. 3063
Date Collected 07-10-81
HPUWCD#1

Location South ½ of Tract 15, Blk. 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 _____

10K

(FOR LABORATORY USE ONLY)

## CHEMICAL ANALYSIS

KEY PUNCHED AUG 31 '81

Laboratory No. CE1-17250 Date Received JUL 29 1981 Date Reported _____

| | | MG/L | ME/L |
|---|---|---|---|
| Silica | 00955 | 70 | |
| Calcium | 00915 | 70 | 3.52 |
| Magnesium | 00925 | 45 | 3.72 |
| Sodium | 00929 | 46 | 2.06 |
| | Total | | 9.44 |
| ☐ Potassium | 00937 | 8.0 | 0.20 |
| [3] ☐ Manganese | 01055 | . | %Na _____ |
| ☐ Boron | 01022 | . | SAR _____ |
| [3] ☐ Total Iron | 01045 | . | RSC _____ |
| ☐ (other) _____ | | MG/L | |
| Specific Conductance (micromhos/cm³) | 00095 | 827 | |
| Diluted Conductance (micromhos/cm³) | | 6 x 171 = 1026 | |

" ☐ " items will be analyzed if checked.

| | | MG/L | ME/L |
|---|---|---|---|
| Carbonate | 00445 | 0 | 0.00 |
| Bicarbonate | 00440 | 238 | 3.90 |
| Sulfate | 00945 | 51 | 1.06 |
| Chloride | 00940 | 143 | 4.03 |
| Fluoride | 00951 | 2.7 | 0.14 |
| Nitrate | 71850 | 29.9 | 0.48 |
| pH | 00403 | 7.8 | Total 9.61 |
| [1] Dissolved Solids (residue at 180°C) | 70300 | | 580 |
| Phenolphthalein Alkalinity as C aCO₃ | 00415 | | (0) 0 |
| Total Alkalinity as C aCO₃ | 00410 | | (3.90) 195 |
| Total Hardness as C aCO₃ | 00900 | | (7.24) 362 |
| [2] Nitrogen Cycle | | | |
| Ammonia - N | 00610 | | |
| Nitrite - N | 00615 | | |
| Nitrate - N | 00620 | | |
| Organic Nitrogen | 00605 | | |

[1] 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.
[2] Nitrogen cycle requires separate sample.
[3] 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 endure 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




April 2, 2025

# Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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.

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Map Unit Descriptions.....11
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PuA—Pullman clay loam, 0 to 1 percent slopes.....14
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# How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report
## Soil Map




Map Scale: 1:2,370 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

## 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% |
| **Totals for Area of Interest** | | **19.6** | **100.0%** |

# Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

# 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

*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

*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

*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

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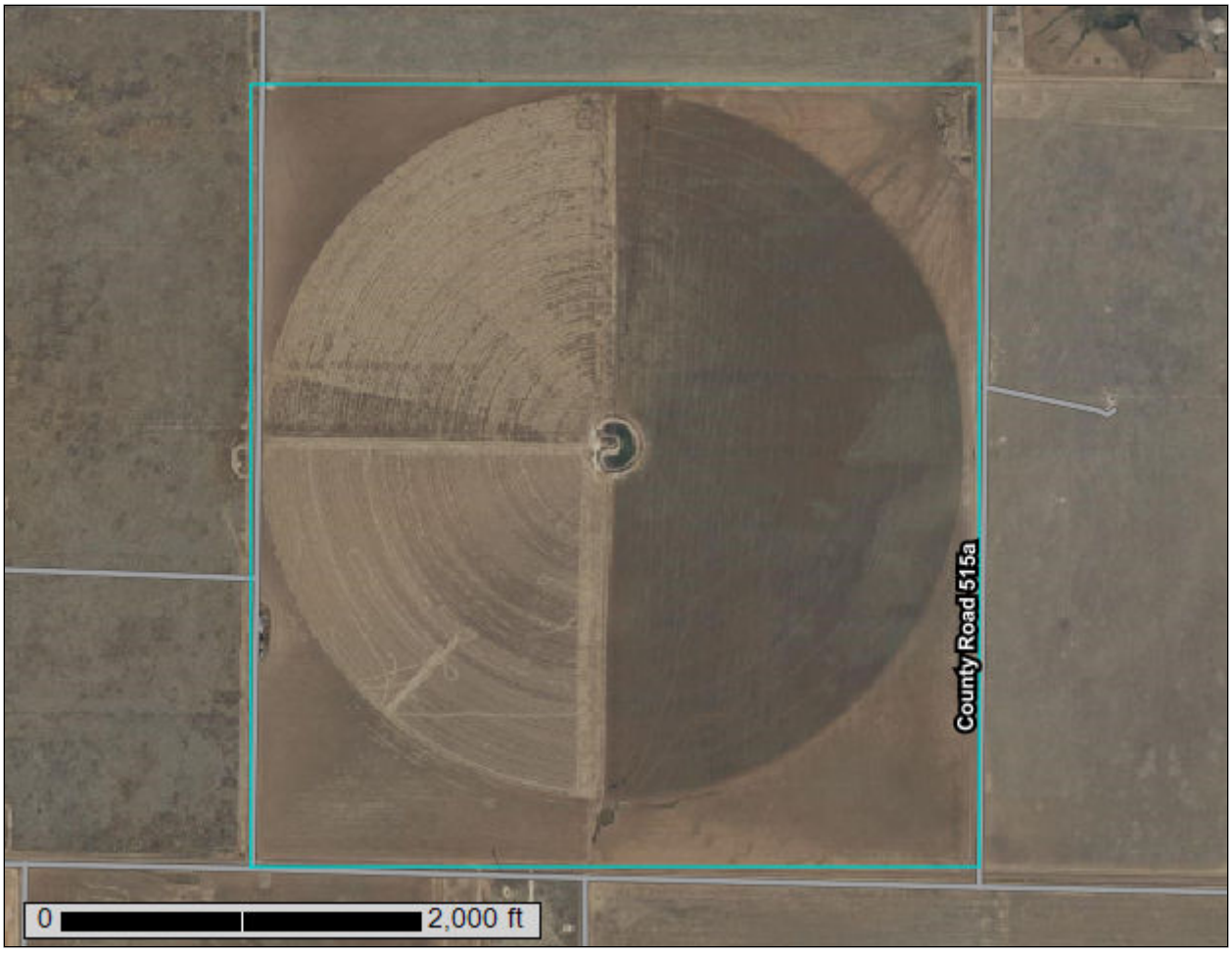
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Castro County, Texas




April 2, 2025

# Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report
## Soil Map




Map Scale: 1:9,500 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 100 200 400 600

Feet
0 450 900 1800 2700

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

## 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% |
| **Totals for Area of Interest** | | **399.1** | **100.0%** |

# Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

# 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

*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

*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

*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

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eurofins | Environment Testing Xenco

# Chain of Custody

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

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 79027 | City, State ZIP: | |
| Phone: | 806-647-4492 Email: | rios.tony10@yahoo.com | |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Northfield Soil Samples | Turn Around | |
| Project Number: | | ☐ Routine ☐ Rush | |
| Project Location: | | Due Date: | |
| Sampler's Name: | | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | Yes (No) | |
| Samples Received Intact: | (Yes) No | Thermometer ID: | IR-4 | |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | -0.1 | |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 22.8 | |
| Total Containers: | | Corrected Temperature: | 22.7 | |

**Preservative Codes**

None: NO | DI Water: $H_2O$
Cool: Cool | MeOH: Me
HCL: HC | $HNO_3$: HN
$H_2SO_4$: $H_2$ | NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Parameters: Electrical Conductivity | Nitrate Nitrogen | Total K Jeldahl Nitrogen | Total Nitrogen | Plant AV Phosphorus | Plant AV Potassium | pH | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-6" East Side | S | 9-5-23 | 10:09Am | 0-6" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 6-18" East Side | S | 9-5-23 | 10:12Am | 6-18" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 18"-30" East Side | S | 9-5-23 | 10:15Am | 18-30" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 0-6" South Side | S | 9-5-23 | 9:56Am | 0-6" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 6-18" South Side | S | 9-5-23 | 10:00Am | 6-18" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 18-30" South Side | S | 9-5-23 | 10:05Am | 18-30" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 0-6" North Side | S | 9-5-23 | 10:18Am | 0-6" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 6-18" North Side | S | 9-5-23 | 10:21Am | 6-18" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| 18-30" Northside | S | 9-5-23 | 10:25Am | 18-30" | | 1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| | | | | | | | | | | | | | | |

Total 200.7 / 6010 200.8 / 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 $SiO_2$ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: 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 |
|---|---|---|---|---|---|
| 1 Tony Rios | Keith Acker | 9-6-23 / 2:00 PM | 2 Keith Acker | Teddy Randolph | 9/6/23 11:10 |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

# 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



| PERMIT NUMBER | YYYY/MM | EID | MONT ID | REQ SET |
|---|---|---|---|---|
| WQ0010080001 | 2023/09 | OTFL 001-2050-OTFL 001 | 28076 | 51169 |

THIS REPORT TO BE USED FOR **SOIL MON** 0-6" NORTHFIELD / EAST SIDE SOIL SAMPLE DRYLAND

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

**TCEQ COPY**

| Parameter | | Effluent Condition Value | Units | No. Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|
| 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 | TONY RIOS | 9-26-23 |
| TELEPHONE NUMBER | PLANT OPERATOR | PLANT OPERATOR | YEAR MO DAY |
| 806 / 647-4492 | Daniel Tarkington | | 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



| 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" NORTHFIELD / EAST SIDE

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLE DRY LAND

**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 | 971 | | | | |
| 819001430-NITRATE NITROGEN, EXTRACTABLE | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 166 | | | | |
| 941830-CONDUCTIVITY, ELECTRIC | Permitted | | MMHOS/CM | | 1/YEAR | 24-HR COMP |
| | Reported | 760 | | | | |
| 6641430-PLANT AVAILABLE PHOSPHORUS | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 18.0 | | | | |
| 825836030-PH, SOIL WATER | Permitted | | STANDARD UNITS | | 1/YEAR | 24-HR COMP |
| | Reported | 7.8 | | | | |
| 9381430-PLANT AVAILABLE POTASSIUM | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 775 | | | | |
| 6251430-TOTAL KJELDAHL NITROGEN | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 805 | | | | |

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| | TONY RIOS | Tony Rios | 9-26-23 |
| TELEPHONE NUMBER | PLANT OPERATOR | PLANT OPERATOR | YEAR MO DAY |
| 806 647-4492 | David Talkington | | 9-26-23 |
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CITY OF DIMMITT
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| WQ0010080001 | 2023/09 | OTFL 001-2050-OTFL 001 | 29866 | 53091 |
|---|---|---|---|---|
| PERMIT NUMBER | YYYY/MM | EID | MONT ID | REQ SET |

THIS REPORT TO BE USED FOR **SOIL MON.** 18-30" NORTH Side / EAST SIDE
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLE DRYLAND

**TCEQ COPY**

| Parameter | | Effluent Condition | | No. Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|
| | | Value | Units | | | |
| 81900-1430-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 | | | | |
| 82583630-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 ASN | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 694 | | | | |

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| | TONY RIOS | Tony R | 9-26-23 |
| TELEPHONE NUMBER | PLANT OPERATOR | PLANT OPERATOR | YEAR MO DAY |
| 806 / 647-4492 | Daniel Jackson | | 9-26-23 |
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| 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" NORTH FIELD / South Side

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLES Dry LAND

**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 | 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)

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|---|---|---|---|
| | Tony Rios | Tony R | 9-26-23 |
| TELEPHONE NUMBER | PLANT OPERATOR | PLANT OPERATOR | YEAR MO DAY |
| 806 / 647-4492 | David Tuckson | | 9-26-23 |
| AREA CODE / NUMBER | EXECUTIVE OFFICER | EXECUTIVE OFFICER | YEAR MO DAY |

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| 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" NORTH FIELD / SOUTHSIDE

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. 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 | 728 | | | | |
| 819001430-NITRATE NITROGEN, EXTRACTABLE | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 92.4 | | | | |
| 941830-CONDUCTIVITY, ELECTRIC | Permitted | | MMHOS/CM | | 1/YEAR | 24-HR COMP |
| | Reported | 838 | | | | |
| 6641430-PLANT AVAILABLE PHOSPHORUS | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 19.9 | | | | |
| 825836030-PH, SOIL WATER | Permitted | | STANDARD UNITS | | 1/YEAR | 24-HR COMP |
| | Reported | 7.9 | | | | |
| 9381430-PLANT AVAILABLE POTASSIUM | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 513 | | | | |
| 6251430-TOTAL KJELDAHL NITROGEN | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 636 | | | | |

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| | TONY RIOS | Tony Rios | 9-26-23 |
| TELEPHONE NUMBER | PLANT OPERATOR | PLANT OPERATOR | YEAR MO DAY |
| 806 / 647-4492 | Daniel Jackson | | 9-26-23 |
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|---|---|---|---|---|
| PERMIT NUMBER | YYYY/MM | EID | MONITID | REQ SET |

THIS REPORT TO BE USED FOR **SOIL MON. 18-30"** NORTH FIELD / SOUTH SIDE

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLES DRY LAND

**TCEQ COPY**

| Parameter | | Effluent Condition | | No. Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|
| | | Value | Units | | | |
| 81000-1430-NITRATE NITROGEN EXTRACTABLE | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 107 | | | | |
| 94180-1430-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 | | | | |
| 82583603-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 | 1639 | | | | |

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| | | TONY RIOS | Tony Rios | 9-26-23 |
| TELEPHONE NUMBER | | PLANT OPERATOR | PLANT OPERATOR | YEAR MO DAY |
| 806 | 647-4492 | Daniel Jaksa | | 9-26-23 |
| AREA CODE | NUMBER | EXECUTIVE OFFICER | EXECUTIVE OFFICER | YEAR MO DAY |

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|---|---|---|---|---|
| **PERMIT NUMBER** | **YYYY/MM** | **EID** | **MONT ID** | **REQ SET** |

THIS REPORT TO BE USED FOR **SOIL MON**. 0-6" NORTH FIELD / North SIDE

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLES 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 | 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 | | | | |

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PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLES DRYLAND

**TCEQ COPY**

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|---|---|---|---|---|---|---|
| | | 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 | | | | |

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PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS. SOIL SAMPLES Dryland

**TCEQ COPY**

| Parameter | | Effluent Condition Value | Units | No. Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|
| 81900430-NITRATE NITROGEN EXTRACTABLE | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 135 | | | | |
| 94830430-CONDUCTIVITY ELECTRIC | Permitted | | MMHOS/CM | | 1/YEAR | 24-HR COMP |
| | Reported | 1210 | | | | |
| 66414430-PLANT AVAILABLE PHOSPHORUS | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 16.7 | | | | |
| 82583630-PH SOIL WATER | Permitted | | STANDARD UNITS | | 1/YEAR | 24-HR COMP |
| | Reported | 8.0 | | | | |
| 62514430-TOTAL KJELDAHL NITROGEN | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 854 | | | | |
| 93814430-PLANT AVAILABLE POTASSIUM | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 409 | | | | |
| 60014430-TOTAL NITROGEN ASN | Permitted | | MG/KG | | 1/YEAR | 24-HR COMP |
| | Reported | 989 | | | | |

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| 806 647-4492 | Daniel Jackson | | 9-26-23 |
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# 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, boles, 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 exit 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 detrained; 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** 98.

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:

Notary Public, State of Texas

JO HAMILTON
Notary Public, State of Texas
My Commission Expires 12-03-2001

THE STATE OF TEXAS )

COUNTY OF CASTRO )

This instrument was acknowledged before me on the 5th day of February, 1998 by John Eric Bivens

My commission expires:

11-30-2001

Notary Public, State of Texas

CHERYL A. TAYLOR
Notary Public, State of Texas
My Commission Expires
11-30-2001

# 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

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**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

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

Parkhill

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 Dimmit 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.



4222 85th Street | Lubbock, Texas 79423 | 806.473.2200 Parkhill.com

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 Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

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

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

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

| 2. Customer Reference Number *(if issued)* | Follow this link to search for CN or RN numbers in Central Registry** | 3. Regulated Entity Reference Number *(if issued)* |
|---|---|---|
| CN 600249668 | | RN 101920874 |

## SECTION II: Customer Information

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

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

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

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

City of Dimmitt

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

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

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

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

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

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

**15. Mailing Address:**

PO Box 146

| City | Dimmitt | State | TX | ZIP | 79027 | ZIP + 4 | |
|---|---|---|---|---|---|---|---|

| 16. Country Mailing Information *(if outside USA)* | 17. E-Mail Address *(if applicable)* |
|---|---|
| | djackson@cityofdimmitt.org |

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 806 ) 647-2155 | | ( ) - |

## SECTION III: Regulated Entity Information

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

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

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

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

City of Dimmitt Wastewater Treatment Plant

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

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

| | | | | | |
|---|---|---|---|---|---|
| **25. Description to Physical Location:** | West side of County Road 515, approximatly 0.25 miles north of the intersection of County Road 514 and County Road 614 | | | | |
| **26. Nearest City** | | | **State** | **Nearest ZIP Code** | |
| Dimmitt | | | Tx | 79027 | |

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

| | | | | | |
|---|---|---|---|---|---|
| **27. Latitude (N) In Decimal:** | 34.5606 | | **28. Longitude (W) In Decimal:** | -102.2983 | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 34 | 33 | 38 | 102 | 17 | 54 |

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

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

Treatment of Domestic Wastewater

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **34. Mailing Address:** | PO Box 146 | | | | | | | |
| | **City** | Dimmitt | **State** | TX | **ZIP** | 79027 | **ZIP + 4** | 0146 |
| **35. E-Mail Address:** | djackson@cityofdimmitt.org | | | | | | | |

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

| | | | | |
|---|---|---|---|---|
| ☐ Dam Safety | ☐ Districts | ☐ Edwards Aquifer | ☐ Emissions Inventory Air | ☐ Industrial Hazardous Waste |
| | | | | |
| ☐ Municipal Solid Waste | ☐ New Source Review Air | ☐ OSSF | ☐ Petroleum Storage Tank | ☐ PWS |
| | | | | |
| ☐ Sludge | ☐ Storm Water | ☐ Title V Air | ☐ Tires | ☐ Used Oil |
| | | | | |
| ☐ Voluntary Cleanup | ☒ Wastewater | ☐ Wastewater Agriculture | ☐ Water Rights | ☐ Other: |
| | WQ0010080001 | | | |

## SECTION IV: Preparer Information

| **40. Name:** | Paul Krueger | **41. Title:** | Civil Engineer |
|---|---|---|---|

| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
|---|---|---|---|
| ( 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.

| **Company:** | City of Dimmitt | **Job Title:** | City Manager | |
|---|---|---|---|---|
| **Name** *(In Print):* | Daniel Jackson | | **Phone:** | ( 806 ) 647- **2155** |
| **Signature:** | | | **Date:** | 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 ii 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:

By: Karen McGuire
KAREN McGUIRE, City Secretary

THE CITY OF DIMMITT, TEXAS

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: Scott Sheffy Date: 7-10-25

(Use blue ink)

Subscribed and Sworn to before me by the said Scott Sheffy

on this 10th day of July, 2025.

My commission expires on the 10th day of November, 2026.

Elaine Kern

Notary Public

[SEAL]

ELAINE KERN
Notary Public. State of Texas
Notary ID# 129943490
My Commission Expires 11-10-2026

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

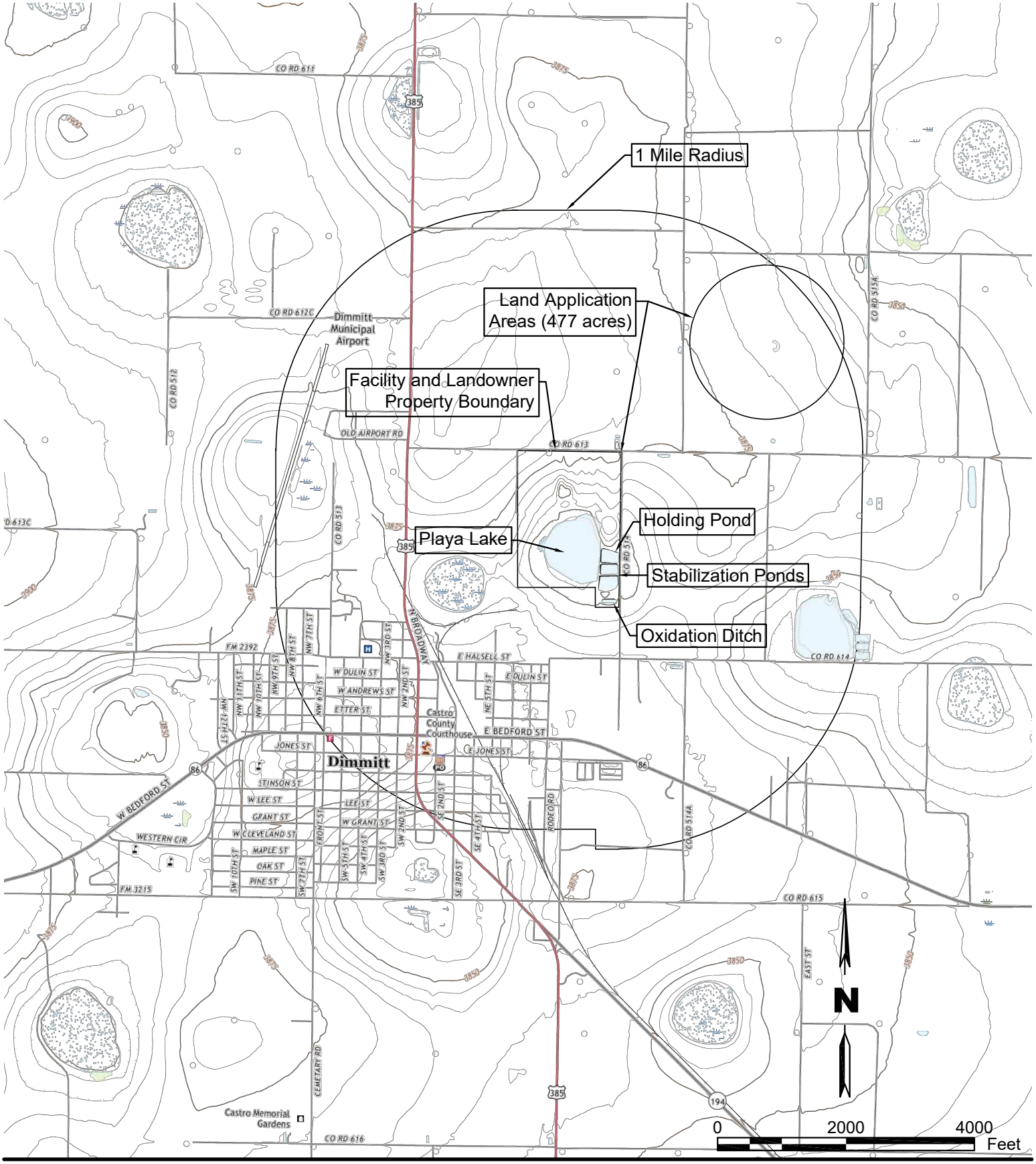
Title: Mayor

Signature: Scott Sheffy

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 |

PERMIT NO. WQ0010080001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This is a renewal supersedes and replaces Permit No. WQ0010080001 issued on May 13, 2016.

PERMIT TO DISCHARGE WASTES
under provisions of Chapter 26
of the Texas Water Code

City of Dimmitt

whose mailing address is

P.O. Box 146
Dimmitt, Texas 79027

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 4952.

General Description and Location of Waste Disposal System:

Description: The City of Dimmitt Wastewater Treatment Facility consists of an activated sludge process plant using the extended aeration mode. Treatment units include an oxidation ditch with two rotors, two stabilization ponds with a total surface area of 3.44 acres and total capacity of 17.2 acre-feet, and six sludge drying beds. The facility includes a naturally formed playa lake for storage and one storage pond with a total surface area of 2.3 acres and total capacity of 11.5 acre-feet for storage of effluent prior to irrigation. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.750 million gallons per day (MGD) via surface irrigation of 477 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.5 acre-feet per year per acre irrigated. The irrigated crops include wheat and cotton

Location: The wastewater treatment facility and disposal site are located approximately 0.25 mile north of the intersection of County Road 514 and County Road 614, in Castro County, Texas 79027. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Mackenzie Reservoir in Segment No. 0228 of the Red River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight, **ten years from the date of issuance**.

ISSUED DATE:

For the Commission

**EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**Conditions of the Permit: No discharge of pollutants into water in the state is authorized.**

A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

Volume: Daily Average Flow – 0.750 MGD from the treatment system

Quality: The following effluent limitations are required:

| | Effluent Concentrations (Not to Exceed) | |
|---|---|---|
| Parameter | Daily Average mg/l | Single Grab mg/l |
| Biochemical Oxygen Demand (5-day) | N/A | 100 |

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

B. Monitoring Requirements:

| Parameter | Monitoring Frequency | Sample Type |
|---|---|---|
| Flow | Continuous | Instantaneous / Totalizing Meter |
| Biochemical Oxygen Demand (5-day) | One/month | Grab |
| pH | One/month | Grab |

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

**STANDARD PERMIT CONDITIONS**

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

**DEFINITIONS**

All definitions in Section 26.001 of the Texas Water Code and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

    a. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

    b. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.

    c. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

2. Concentration Measurements

    a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

        i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

        ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

    b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

    c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

3. Sample Type

   a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

   b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term “sewage sludge” is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.

6. The term “biosolids” is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

**MONITORING REQUIREMENTS**

1. Monitoring Requirements

   Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§ 319.4 - 319.12.

   As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record or other document submitted or required to be maintained under this permit, including monitoring reports, records or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

   a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests and calculations shall be accurately accomplished in a representative manner.

b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, or application. This period shall be extended at the request of the Executive Director.

c. Records of monitoring activities shall include the following:

i. date, time and place of sample or measurement;
ii. identity of individual who collected the sample or made the measurement.
iii. date and time of analysis;
iv. identity of the individual and laboratory who performed the analysis;
v. the technique or method of analysis; and
vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

   Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

      i. Unauthorized discharges as defined in Permit Condition 2(g).

      ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.

   c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.

8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

   All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

   a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D,

Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. One hundred micrograms per liter (100 µg/L);
ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
iv. The level established by the TCEQ.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. Five hundred micrograms per liter (500 µg/L);
ii. One milligram per liter (1 mg/L) for antimony;
iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
iv. The level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

**PERMIT CONDITIONS**

1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

i. Violation of any terms or conditions of this permit;
ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

   a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

   b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

   c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

   d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.

   e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

   f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

   g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.

   h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties).

3. Inspections and Entry

   a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.

   b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are

entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in Texas Water Code Section 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;

      ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit

conditions, including effluent limitations for pollutants not identified and limited by this permit.

e. In accordance with the Texas Water Code § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

5. Permit Transfer

a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal which requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

8. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

9. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

10. Notice of Bankruptcy.

a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

i. the permittee;
ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;
ii. the permit number(s);
iii. the bankruptcy court in which the petition for bankruptcy was filed; and
iv. the date of filing of the petition.

**OPERATIONAL REQUIREMENTS**

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).

7. Documentation

   For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information specified as not confidential in 30 TAC § 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities which generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

   a. Whenever flow measurements for any domestic sewage treatment facility reach 75 percent of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90 percent of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75 percent of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

      If in the judgement of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

   b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

   c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or

discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:

    a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

    b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

    c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

    d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.

    e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

    f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:

        i. Volume of waste and date(s) generated from treatment process;
        ii. Volume of waste disposed of on-site or shipped off-site;

iii. Date(s) of disposal;
iv. Identity of hauler or transporter;
v. Location of disposal site; and
vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

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**SLUDGE PROVISIONS**

The permittee is authorized to dispose of sludge or biosolids only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

**SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION**

**A. General Requirements**

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge or biosolids to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

**B. Testing Requirements**

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 1) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224).

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

| Pollutant | Ceiling Concentration (Milligrams per kilogram)* |
|---|---|
| Arsenic | 75 |
| Cadmium | 85 |
| Chromium | 3000 |
| Copper | 4300 |
| Lead | 840 |
| Mercury | 57 |
| Molybdenum | 75 |
| Nickel | 420 |
| PCBs | 49 |
| Selenium | 100 |
| Zinc | 7500 |

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

   Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

   The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

   At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

   Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

   Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

i. Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted

for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids

generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 - i. Sewage sludge shall be injected below the surface of the land.

ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

**C. Monitoring Requirements**

| | |
|---|---|
| Toxicity Characteristic Leaching Procedure (TCLP) Test | - once during the term of this permit |
| PCBs | - once during the term of this permit |

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

| Amount of biosolids (*) metric tons per 365-day period | Monitoring Frequency |
|---|---|
| 0 to less than 290 | Once/Year |
| 290 to less than 1,500 | Once/Quarter |
| 1,500 to less than 15,000 | Once/Two Months |
| 15,000 or greater | Once/Month |

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

## SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B BIOSOLIDS PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

### A. Pollutant Limits

Table 2

| Pollutant | Cumulative Pollutant Loading Rate (pounds per acre)* |
|---|---|
| Arsenic | 36 |
| Cadmium | 35 |
| Chromium | 2677 |
| Copper | 1339 |
| Lead | 268 |
| Mercury | 15 |
| Molybdenum | Report Only |
| Nickel | 375 |
| Selenium | 89 |
| Zinc | 2500 |

Table 3

| Pollutant | Monthly Average Concentration (milligrams per kilogram)* |
|---|---|
| Arsenic | 41 |
| Cadmium | 39 |
| Chromium | 1200 |
| Copper | 1500 |
| Lead | 300 |
| Mercury | 17 |
| Molybdenum | Report Only |
| Nickel | 420 |
| Selenium | 36 |
| Zinc | 2800 |

*Dry weight basis

### B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

**C. Management Practices**

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge or biosolids enters a wetland or other waters in the State.

2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

    a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

    b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

    c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

**D. Notification Requirements**

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

    a. The location, by street address, and specific latitude and longitude, of each land application site.

    b. The approximate time period bulk biosolids will be applied to the site.

    c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

**E. Record Keeping Requirements**

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

   "I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge or biosolids treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.

   c. The number of acres in each site on which bulk sludge or biosolids are applied.

   d. The date and time sludge or biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

## F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

    The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

## SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 1) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

   The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224), by September 30$_{th}$ of each year.

D. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.

E. Record Keeping Requirements

   The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.

2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

## SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

### A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

### B. Record Keeping Requirements

1. For sludge or biosolids transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

## C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

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**SPECIAL PROVISIONS:**

1. This permit is granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.

2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

   This Category D facility must be operated by a chief operator or an operator holding a Class D license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.

4. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, wheat and cotton shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.

5. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.

6. The irrigated crops include wheat and cotton. Application rates to the irrigated land shall not exceed 4.5 acre-feet per year per acre irrigated. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the TCEQ and shall be maintained for at least three years.

**TECHNICAL SUMMARY AND**
**EXECUTIVE DIRECTOR'S PRELIMINARY DECISION**

DESCRIPTION OF APPLICATION

| | |
|---|---|
| Applicant: | City of Dimmitt<br>TCEQ Permit No. WQ0010080001 |
| Regulated Activity: | Domestic Wastewater Permit |
| Type of Application: | Renewal |
| Request: | Renewal with no changes |
| Authority: | Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 305, 309, 312, 319, and 30; and Commission policies. |

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **ten years from the date of issuance,** according to 30 TAC Section 305.127(1)(C)(ii)(III), Conditions to be Determined for Individual Permits.

REASON FOR PROJECT PROPOSED

City of Dimmitt has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0010080001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 750,000 million gallons per day (MGD) via surface irrigation of 477 acres of non-public access agricultural land.

The facility includes a naturally formed playa lake for storage and one storage pond with a total surface area of 2.3 acres and total capacity of 11.5 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the City of Dimmitt.

PROJECT DESCRIPTION AND LOCATION

The City of Dimmitt Wastewater Treatment Facility consists of an activated sludge process plant using the extended aeration mode. Treatment units include an oxidation ditch with two rotors, two stabilization ponds, a holding pond and six sludge dryinng beds.

The facility is a pond system and sludge from the ponds has not been removed for sludge disposal to date. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located approximately 0.25 mile north of the intersection of County Road 514 and County Road 614 in Castro County, Texas 79027.

The wastewater treatment facility and disposal site are located in the drainage basin of Mackenzie Reservoir in Segment No. 0228 of the River Basin. No discharge of pollutants into water in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period January 2023 through December 2024. The average of Daily Average value is computed by averaging of all 30-day average values for the reporting period for each parameter: flow, five-day biochemical oxygen demand ($BOD_5$), and pH

| Parameter | Average of Daily Average |
|---|---|
| Flow, MGD | 0.260 |
| $BOD_5$, mg/l | 39 |
| pH | 7.4 |

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 750,000 MGD via surface irrigation of 477 acres of non-public access agricultural land. The facility includes a naturally formed playa lake for storage and one storage pond with a total surface area of 2.3 acres and total capacity of 11.5 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 4.5 acre-feet per year per acre irrigated. The irrigated crops include wheat and cotton

The effluent limitation in the draft permit, based on a single grab, is 100 mg/l biochemical oxygen demand ($BOD_5$). The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The facility is a pond system and sludge from the ponds has not been removed for sludge disposal to date. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit effluent limitations and monitoring requirements.

The Sludge Provisions, Special Provisions, and Standard Provisions have been revised in the

draft permit.

Special Provisions Nos. 4, 8, 9, 10 and 14 and 15 in the existing permit have been updated.

Special Provisions Nos. 11, 12, 17, 18, 19, 20, 21 and 22 have been added to the draft permit based on recommendations from the Water Quality Assessment Team.

The draft permit includes all updates based on the 30 TAC 312 rule change effective April 23, 2020.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on July 7, 2025, and additional information received on August 18, 2025.

2. Existing TCEQ permit: Permit No. WQ0010080001 issued on May 13, 2016.

3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to

be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Paula Palmar at (512) 239-4561.

*Paula Palmar*

Paula Palmar
Municipal Permits Team
Wastewater Permitting Section (MC 148)

August 21, 2025
Date