



# **Administrative Package Cover Page**

**This file contains the following documents:**

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

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0015631001

**APPLICATION.** Lake View Management and Development District, 2728 North Harwood Street, Suite 500, Dallas, Texas 75201, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0015631001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 39,000 gallons per day via surface irrigation of 13.5 acres of non-public access land. The domestic wastewater treatment facility and disposal area are located approximately 700 feet west of the intersection of County Road 1400 and County Road 1410, near the city of Malakoff, in Henderson County, Texas 75148. TCEQ received this application on September 5, 2024. The permit application will be available for viewing and copying at Henderson County Public Library, front desk, 121 South Prairieville Street, Athens, in Henderson 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=-96.00959,32.18981&level=18>

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

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

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

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

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

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

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

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

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

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

**AGENCY CONTACTS AND INFORMATION.** All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in

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

Further information may also be obtained from Lake View Management and Development District at the address stated above or by calling Mr. Guymon Phillips, District Engineer, at 214-725-4200.

Issuance Date: September 24, 2024



Jon Niermann, *Chairman*  
Bobby Janecka, *Commissioner*  
Catarina R. Gonzales, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

September 24, 2024

Mr. Guymon Phillips  
District Engineer  
Lake View Management and Development District  
1914 Skillman Street  
Dallas, Texas 75206

RE: Declaration of Administrative Completeness  
Applicant Name: Lake View Management and Development District (CN603151457)  
Permit No.: WQ0015631001  
Site Name: Long Cove WWTP (RN110054038)  
Type of Application: Renewal

Dear Mr. Phillips:

The executive director has declared the above referenced application, received on September 5, 2024 administratively complete on September 24, 2024.

You are now required to publish notice of your proposed activity and make a copy of the application available for public review. The following items are included to help you meet the regulatory requirements associated with this notice:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Public Notice Verification Form
- Publisher's Affidavits

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

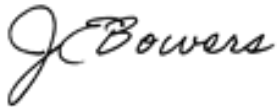
1. Publish the enclosed notice within **30 calendar days** after your application is declared administratively complete. (See this letter's first paragraph for the declaration date.) **You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.**
2. On or before the date you publish notice, place a copy of your permit application in a public place in the county where the facility is or will be located. This copy must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place throughout the comment period.

3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.
4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with **all** the requirements described in the instructions, further processing of your application may be suspended, or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact Candice Calhoun at (512) 239-4312 or [candice.calhoun@tceq.texas.gov](mailto:candice.calhoun@tceq.texas.gov).

Sincerely,

A handwritten signature in black ink that reads "JEBowers". The signature is written in a cursive style with a large, stylized "J" and "B".

Jennifer E. Bowers  
Section Manager, Water Quality Division Support  
Office of Water  
Texas Commission of Environmental Quality

JEB/cgc

Enclosures



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Lake View Management and Development District

PERMIT NUMBER (If new, leave blank): WQ00 15631001

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

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

For TCEQ Use Only

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION  
ADMINISTRATIVE REPORT 1.0**

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

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

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

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

Minor Amendment (for any flow) \$150.00 ☐

**Payment Information:**

Mailed      Check/Money Order Number: 4169  
Check/Money Order Amount: \$315.00  
Name Printed on Check: Team Phillips, Inc.

EPAY      Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed?      Yes ☐

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

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

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

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

- ☒ Active      ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: Not applicable

f. For existing permits:

Permit Number: WQ00 15631001

EPA I.D. (TPDES only): TX Not Applicable

Expiration Date: February 11, 2025

### Section 3. Facility Owner (Applicant) and Co-Applciant Information (Instructions Page 26)

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

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

Lake View Management and Development District

*(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)*

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?

You may search for your CN on the TCEQ website at <http://www15.tceq.texas.gov/crpub/>

CN: 603151457

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: Burleson, Thomas

Title: President, Board of Directors 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?

Not Applicable

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

### C. Core Data Form

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

## Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Click to enter text.

Last Name, First Name: Phillips, Guymon

Title: District Engineer

Credential: Professional Engineer

Organization Name: Lake View Management & Development District

Mailing Address: 1914 Skillman Street

City, State, Zip Code: Dallas, TX, 75206

Phone No.: 214-725-4200

E-mail Address: guymon@teamphillipsinc.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Click to enter text.

Last Name, First Name: Breisch, Glenn

Title: Click to enter text.

Credential: Professional Engineer

Organization Name: Wasteline Engineering

Mailing Address: 208 South Front Street

City, State, Zip Code: Aledo, TX, 76008

Phone No.: 817-441-1300

E-mail Address: gbreisch@wasteline-eng.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: Click to enter text.

Last Name, First Name: Phillips, Guymon

Title: District Engineer

Credential: Professional Engineer

Organization Name: Lake View Management & Development District

Mailing Address: 1914 Skillman Street

City, State, Zip Code: Dallas, TX, 75206

Phone No.: 214-725-4200

E-mail Address: guymon@teamphillipsinc.com

B. Prefix: [Click to enter text.](#) Last Name, First Name: Breisch, Glenn  
Title: [Click to enter text.](#) Credential: Professional Engineer  
Organization Name: Wasteline Engineering  
Mailing Address: 208 South Front Street City, State, Zip Code: Aledo, TX, 76008  
Phone No.: 817-441-1300 E-mail Address: gbreisch@wasteline-eng.com

## Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: [Click to enter text.](#) Last Name, First Name: Phillips, Guymon  
Title: District Engineer Credential: Professional Engineer  
Organization Name: Lake View Management & Development District  
Mailing Address: 1914 Skillman Street City, State, Zip Code: Dallas, TX, 75206  
Phone No.: 214-725-4200 E-mail Address: guymon@teamphillipsinc.com

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

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

Prefix: [Click to enter text.](#) Last Name, First Name: Vasquez, Esequiel  
Title: Operator Credential: [Click to enter text.](#)  
Organization Name: Lake View Management & Development District  
Mailing Address: PO Box 1004 City, State, Zip Code: Little Elm TX 75068  
Phone No.: 214-773-6013 E-mail Address: [Click to enter text.](#)

## Section 8. Public Notice Information (Instructions Page 27)

### A. Individual Publishing the Notices

Prefix: [Click to enter text.](#) Last Name, First Name: Phillips, Guymon  
Title: District Engineer Credential: [Click to enter text.](#)  
Organization Name: Lake View Management & Development District Engineer  
Mailing Address: 1914 Skillman Street City, State, Zip Code: Dallas, TX, 75206  
Phone No.: 214-725-4200 E-mail Address: guymon@teamphillipsinc.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:  Last Name, First Name:

Title:  Credential:

Organization Name:

Mailing Address:  City, State, Zip Code:

Phone No.:  E-mail Address:

**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: Henderson County Library

Location within the building: Front Desk

Physical Address of Building: 121 S. Prairieville

City: Athens

County: Henderson

Contact (Last Name, First Name): Reception

Phone No.: 903-677-7295 Ext.:

**E. Bilingual Notice Requirements**

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

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

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

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No



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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

#### F. Plain Language Summary Template

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

**Attachment:** 2

#### G. Public Involvement Plan Form

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

**Attachment:** Not Applicable

## 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 110054038

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):

Long Cove WWTP

C. Owner of treatment facility: Lake View Management & Development District

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

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

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

Last Name, First Name: Applicant

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.](#)

E. Owner of effluent disposal site:

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

Last Name, First Name: Applicant

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

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

Organization Name: [Click to enter text.](#)

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

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

Phone No.: [Click to enter text.](#)

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

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

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

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

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

Last Name, First Name: 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:

Not Applicable

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:

No Discharge

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:

- B. City nearest the disposal site: Malakoff

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

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

The effluent is moved from the treatment plant site through a six-inch (6") pipe to a holding pond. From there, the effluent is pumped to an irrigation field.

- E. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: The rainfall would flow north to an unnamed tributary. From there, it would enter Cedar Creek Reservoir.

## Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes      ☒ No

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

☐ Yes      ☐ No      ☒ Not Applicable

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

[Click to enter text.](#)

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

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

Amount past due: [Click to enter text.](#)

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

## Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: [Click to enter text.](#)

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

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

Permit Number: WQ0015631001

Applicant: Lake View Management and Development District

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Thomas H. Burleson

Signatory title: President, Board of Directors

Signature: 

Date: 7-31-2024

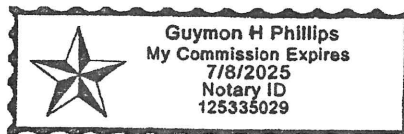
(Use blue ink)

Subscribed and Sworn to before me by the said Thomas H. Burleson

on this 31<sup>st</sup> day of July, 2024.

My commission expires on the 8<sup>th</sup> day of July, 2025.

  
Notary Public



[SEAL]

Dallas  
County, Texas



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION  
TECHNICAL REPORT 1.0**

---

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

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

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

**A. Existing/Interim I Phase**

Design Flow (MGD): 0.013

2-Hr Peak Flow (MGD): 0.052

Estimated construction start date: April 1st, 2018

Estimated waste disposal start date: September 1st, 2018

**B. Interim II Phase**

Design Flow (MGD): 0.026

2-Hr Peak Flow (MGD): 0.104

Estimated construction start date: April 1st, 2026

Estimated waste disposal start date: September 1st, 2026

**C. Final Phase**

Design Flow (MGD): 0.039

2-Hr Peak Flow (MGD): 0.156

Estimated construction start date: April 1st, 2029

Estimated waste disposal start date: September 1st, 2029

**D. Current Operating Phase**

Provide the startup date of the facility: Approximately June 2021

**Section 2. Treatment Process (Instructions Page 43)**

**A. Current Operating Phase**

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

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

**This is an extended aeration wastewater treatment facility. This wastewater treatment facility consists of an aeration basin, clarifier, chlorinator, aerobic digester, and holding pond. The treated effluent will flow to a evaporation pond where it is subject to evaporation and / or to be used to irrigate 4.5 acres of Bermuda and Canary Reed grass.**

## 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)
Please see attachment 4		

## C. Process Flow Diagram

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

**Attachment:** 5

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

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

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

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

- Latitude: 32°11'22.69"N
- Longitude: 96° 0'42.24"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:** 6

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

The treatment facility will be serving the Long Cove Development District.

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 collectionyou systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Long Cove	Lake View Management and Development District	Privately Owned	Approx 85
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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



☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

## Section 6. Permit Specific Requirements (Instructions Page 45)

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

### A. Summary transmittal

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

☒ Yes ☒ No

If **yes**, provide the date(s) of approval for each phase: February 28th, 2018

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

Click to enter text.

### B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Buffer zone requirements met via ownership.

### C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

### D. Grit and grease treatment

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

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

☐ Yes ☒ No

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

#### 2. Grit and grease processing

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

Click to enter text.

#### 3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

#### 4. Grease and decanted liquid disposal

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

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

Click to enter text.

### E. Stormwater management

#### 1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

#### 2. MSGP coverage

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

☐ Yes ☐ No

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

TXR05 [Click to enter text.](#) or TXRNE [Click to enter text.](#)

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

☐ Yes ☐ No

#### 3. Conditional exclusion

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

☐ Yes ☐ No

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

Click to enter text.

**4. Existing coverage in individual permit**

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

☐ Yes ☐ No

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

Click to enter text.

**5. Zero stormwater discharge**

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

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

[Click to enter text.](#)

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

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

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

[Click to enter text.](#)

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

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

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

☐ Yes ☒ No

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

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

[Click to enter text.](#)

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

##### 2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

## Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

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

\*TPDES permits only

†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Esequiel Vasquez

Facility Operator's License Classification and Level: Wastewater Class D

Facility Operator's License Number: WW0068852

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

### A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

### B. WWTP's 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 ( $\geq 2$  years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: [Click to enter text.](#)

### C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize



all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

#### Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk	Approx. 0.01	Domestic Septage: pH	Option 8: Unstabilized sludge is $\geq 90\%$ solids
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 Log Cabin

TCEQ permit or registration number: WQ0014158001

County where disposal site is located: Henderson County

#### E. Transportation method

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

Name of the hauler: Spanky's Septic

Hauler registration number: 0607

Sludge is transported as a:

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

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

#### A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

#### B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

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

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

#### A. Location information

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

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

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

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

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

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

[Click to enter text.](#)

## B. Temporary storage information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:

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

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

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

## C. Liner information

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

☐ Yes ☐ No

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

[Click to enter text.](#)

#### D. Site development plan

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

[Click to enter text.](#)

Attach the following documents to the application.

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

#### E. Groundwater monitoring

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

☐ Yes ☐ No

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

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

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

### A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

### B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

### A. RCRA hazardous wastes

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

☐ Yes ☒ No

**B. Remediation activity wastewater**

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

☐ Yes ☒ No

**C. Details about wastes received**

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

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

## Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

### CERTIFICATION:

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

Printed Name: Thomas H. Burleson

Title: President, Board of Directors

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: [Click to enter text.](#)

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

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

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

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Phase 1: Bermuda & Rye Grass	4.5	13,000	N
Phase 2: Bermuda & Rye Grass	9	26,000	N
Final: Bermuda & Rye Grass	13.5	39,000	N
***All land will remain undeveloped***			



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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	1.32	11.18	215' x 268'	synthetic

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

Attachment: 8

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

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

☐ Yes ☒ No

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

Click to enter text.

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

FEMA FIRM No. 48213C0300E

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

In an effort to prevent groundwater contamination, we will be surrounding the perimeter of the application site by a six-inch-high by twelve-inch-wide earthen berm to prevent runoff of applied effluent.

## Section 5. Annual Cropping Plan (Instructions Page 68)

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

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

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

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

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

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

**Table 3.0(3) – Water Well Data**

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
Please see	Attachment 9		Varies, see list.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: 10

## Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: 11

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

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

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

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

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

### A. Soil map

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

Attachment: 12

### B. Soil analyses

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

Attachment: 13

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

**Table 3.0(4) – Soil Data**

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
Please see attachment 13				

## Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

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

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

**Table 3.0(5) – Effluent Monitoring Data**

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
6/24	0.0227	2.3	4.8	7.35	2.59	0
5/24	0.0182	6.8	11.8	7.2	1.69	0
4/24	0.0104	3.1	8.5	6.7	3.36	0
3/24	0.0134	4.4	23.1	7.07	1.54	0
2/24	0.0090	3.1	15.2	6.88	2.1	0
1/24	0.0116	3.2	18.8	7.38	1.66	0
12/23	0.0094	2.6	13	7.05	2.2	0
11/23	0.0098	2.9	7.5	6.9	2.56	0
10/23	0.0082	3	7.5	7.18	2.09	0
9/23	0.0129	4.5	11	7.22	1.57	0
8/23	0.0129	2.5	10	6.94	2.39	0
7/23	0.0124	5.1	14.3	7	1.73	0
6/23	0.0114	2.5	4.4	6.72	2.29	0
5/23	0.0119	3.5	6.5	7.1	2.51	0
4/23	0.0101	2.9	5.7	7.05	2.07	0
3/23	0.0087	2.4	13.2	7.08	2.28	0
2/23	0.0058	3.7	9.2	7.15	3.61	0
1/23	0.0069	3.6	11.2	7.04	3.01	0
12/22	0.0077	2.8	5.3	6.97	3.45	0
11/22	0.0079	2.1	5.3	7.16	1.72	0
10/22	0.0067	3	3.7	6.62	3.28	0
9/22	0.0072	3.6	2.9	6.58	2.77	0
8/22	0.0129	2.8	4	7.14	3.63	0
7/22	0.0167	3.4	6.1	7.08	4.14	0

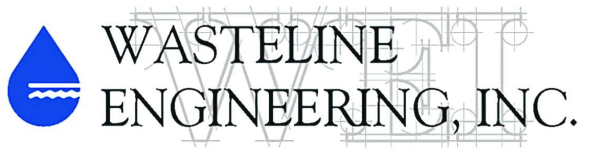
Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

## Attachment Index

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Attachment 1 – Core Data Form - 10400  
Attachment 2 – Plain Language Summary  
Attachment 3 – USGS Map  
Attachment 4 – Major Component List  
Attachment 5 – Flow Diagram  
Attachment 6 – Site Map  
Attachment 7 – Pond Liner Certification  
Attachment 8 – Cropping Plan  
Attachment 9 – Water Well Information  
Attachment 10 – Water Well Reports  
Attachment 11 – Groundwater Quality Technical Report  
Attachment 12 – Well Map  
Attachment 13 – Soil Report



Attachment 1 – Core Data Form - 10400

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TCEQ Use Only

# TCEQ Core Data Form

For detailed instructions regarding completion of 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.)	
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)	
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	3. Regulated Entity Reference Number (if issued)
CN 603151457	RN 110054038

[Follow this link to search for CN or RN numbers in Central Registry\\*\\*](#)

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)					
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership					
<b>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).</b>							
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:					
Lake View Management and Development District							
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)				
	32061182864	451057059					
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited				
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:					
12. Number of Employees		13. Independently Owned and Operated?					
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following							
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator							
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:							
15. Mailing Address:	2728 Hardwood Street						
	500 Winstead Bldg						
	City	Dallas	State	TX	ZIP	75201	ZIP + 4
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)			
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)			
( 214 ) 745-5353				( 214 ) 745-5390			

## SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information	
<b>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).</b>	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Long Cove WWTP	



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

**Enter Physical Location Description if no street address is provided.**

25. Description to Physical Location:	LOCATED 700 FT WEST OF INTERX OF CR 1410 & CR1400 NORTH OF THE CITY OF MALAKOFF						
26. Nearest City	Malakoff				State	TX	Nearest ZIP Code
							75148
27. Latitude (N) In Decimal:	32.18981		28. Longitude (W) In Decimal:	-96.00959			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
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.)							
The treatment of wastewater for residential homes.							
34. Mailing Address:	2728 Hardwood Street						
	500 Winstead Bldg						
	City	Dallas	State	TX	ZIP	75201	ZIP + 4
35. E-Mail Address:	rmartin@winstead.com						
36. Telephone Number	37. Extension or Code		38. Fax Number (if applicable)				
( ) -			( ) -				

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


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
WQ0015631001				

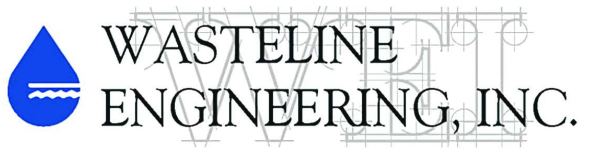
#### **SECTION IV: Preparer Information**

40. Name:	Jeremy Face	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 817 ) 441-1300		( ) -	jface@wasteline-eng.com

#### **SECTION V: Authorized Signature**

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

Company:	Lake View Management and Development District	Job Title:	President, Board of Directors
Name (In Print):	Thomas H. Bursen	Phone:	(214) 745-5353
Signature:		Date:	8-14-2024



## Attachment 2 – Plain Language Summary

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## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

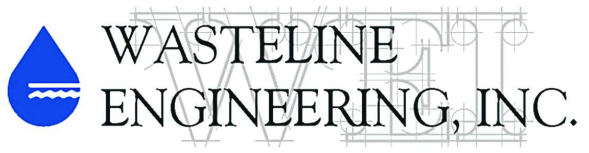
If you are subject to the alternative language notice requirements in [30 TAC Section 39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been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

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

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

Lake View Management and Development District (603151457) operates Long Cove WWTP (110054038), a domestic wastewater treatment facility. The facility is located at 700 feet west of the intersection of County Road 1410 and County Road 1400, in the City of Malakoff, Henderson County, Texas 75148. This application is requesting a renewal of the existing permit for land application of treated domestic wastewater not to exceed a limit of 0.039 MGD. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day Carbonaceous Biochemical Oxygen Demand, total suspended solids, and ammonia nitrogen. Domestic wastewater is treated by an activated sludge process plant operating in extended aeration mode, with treatment units including an aeration basin, final clarifier, sludge digester, and chlorine contact chamber.



## Attachment 3 – USGS Map

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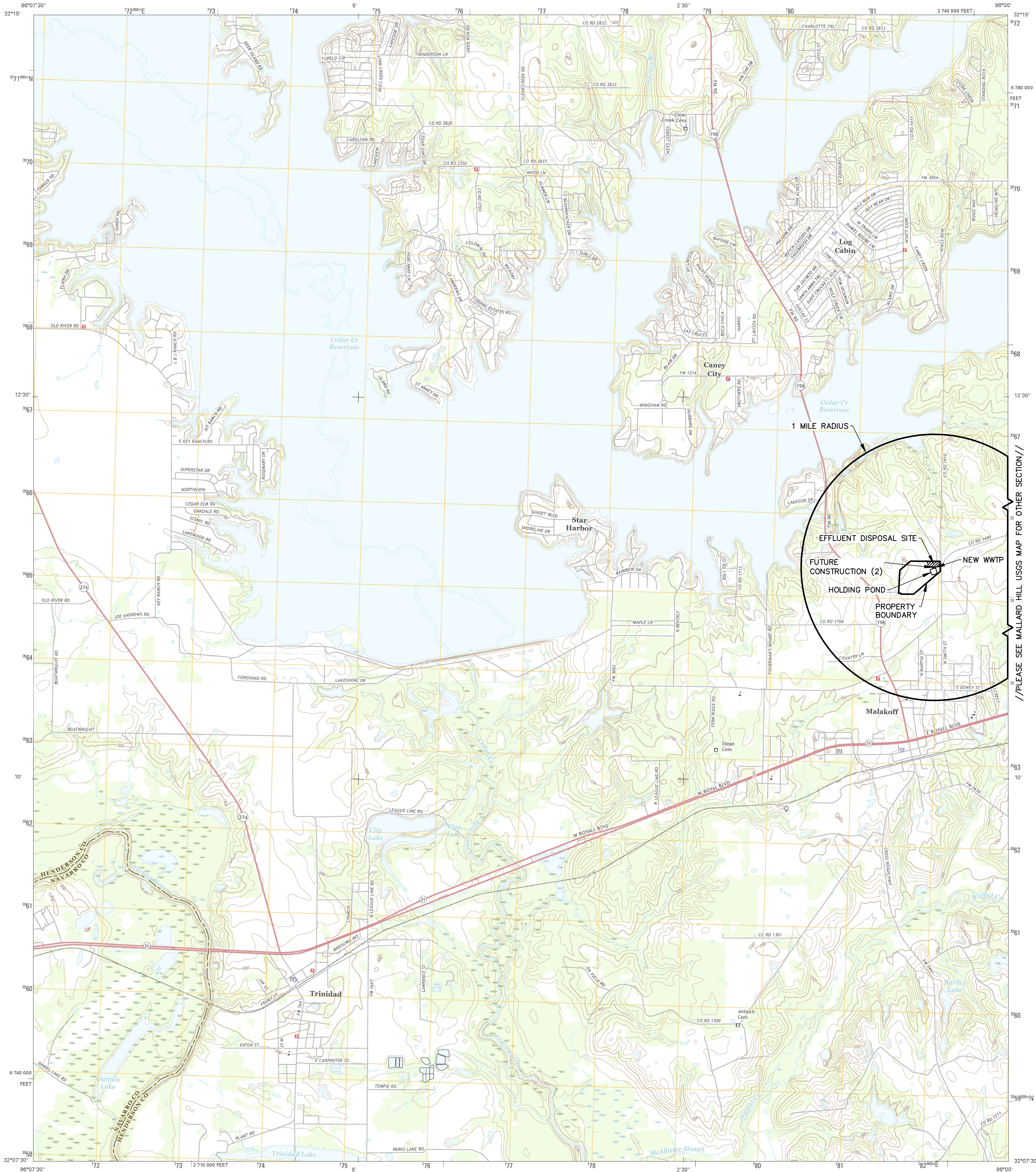




U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

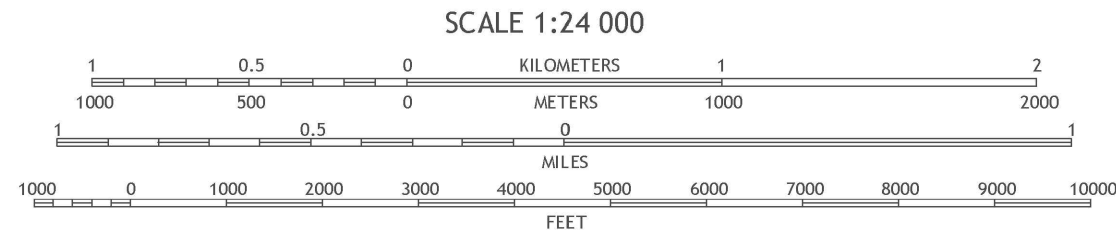
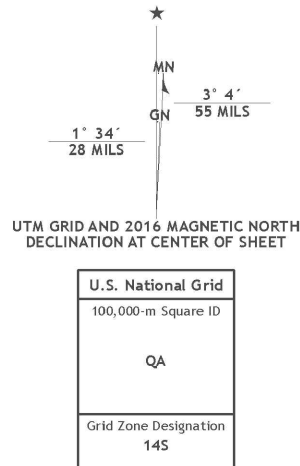


MALAKOFF QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



//PLEASE SEE MALLARD HILL USGS MAP FOR OTHER SECTION //

Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 14S  
10 000-foot ticks: Texas Coordinate System of 1983 (north  
central zone)  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.  
Imagery.....NAIP, August 2014  
Roads.....U.S. Census Bureau, 2014 - 2015  
Names.....National Hydrography Dataset, 2014  
Hydrography.....National Hydrography Dataset, 2014  
Contours.....National Elevation Dataset, 2003  
Boundaries.....Multiple sources; see metadata file 1972 - 2015  
Wetlands.....FWS National Wetlands Inventory 1977 - 2014



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.19



QUADRANGLE LOCATION

ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

1	2	3
4	5	6
7	8	9

1 Tool  
2 Mabank  
3 Stockard  
4 Kerens  
5 Mallard Hill  
6 Goodlow Park  
7 Creek Ranch  
8 Cross Roads

MALAKOFF, TX  
2016



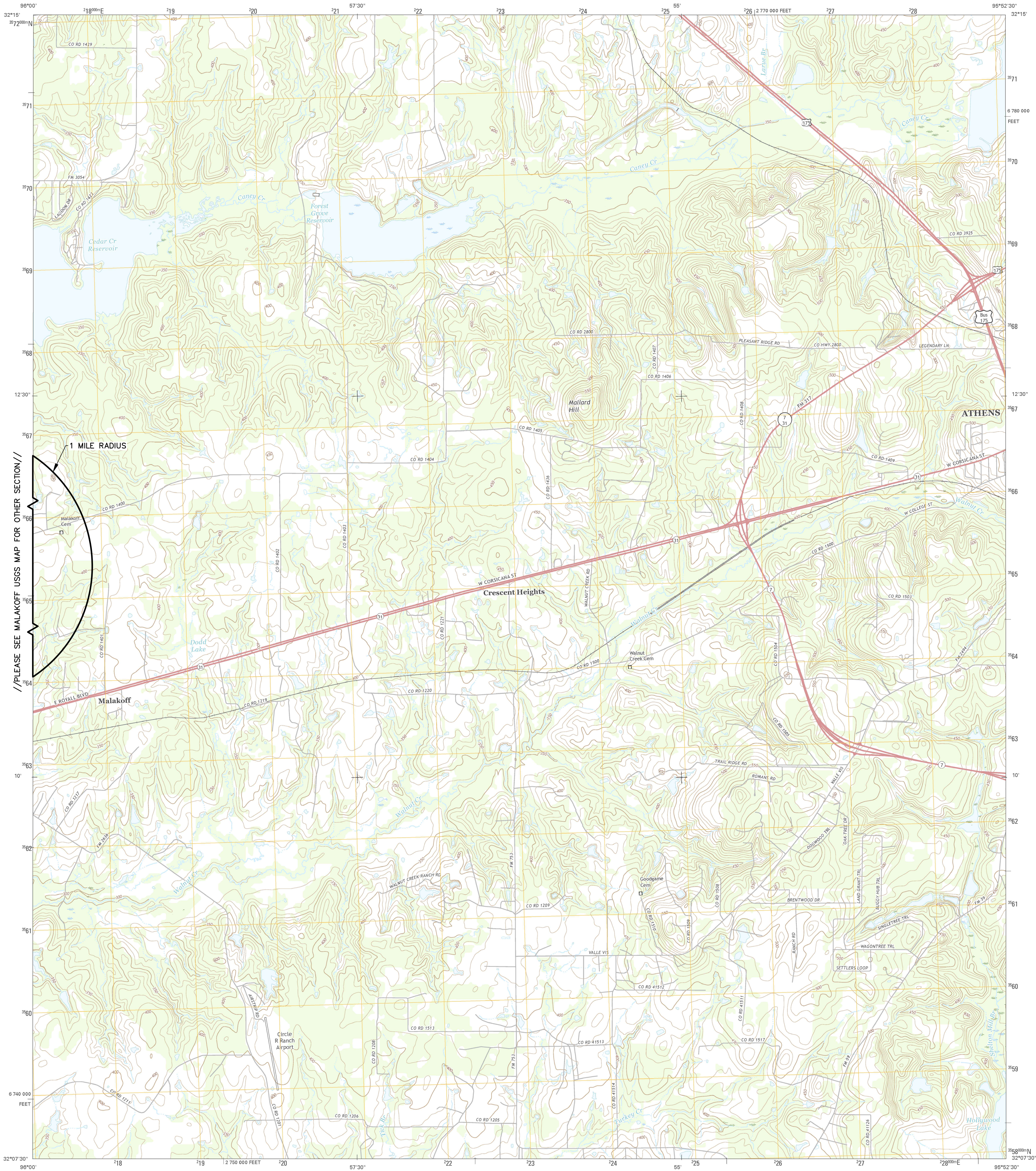




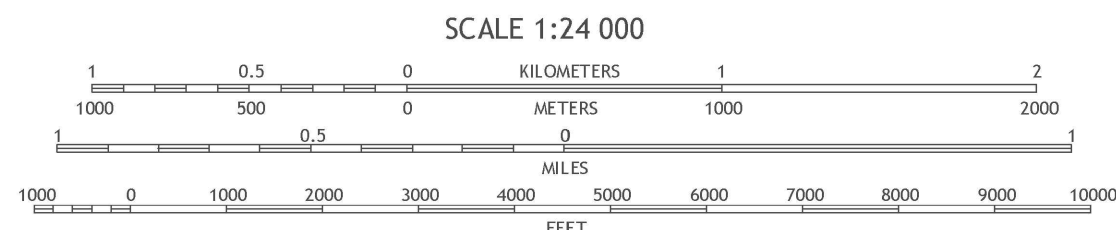
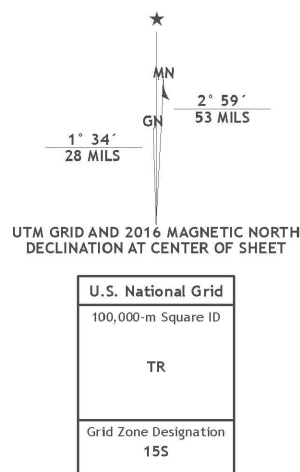
U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY



MALLARD HILL QUADRANGLE  
TEXAS-HENDERSON CO.  
7.5-MINUTE SERIES



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1000-meter grid: Universal Transverse Mercator, Zone 15S  
10 000-foot ticks: Texas Coordinate System of 1983 (north  
central zone)  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.  
Imagery.....NAIP, July 2014  
Roads.....U.S. Census Bureau, 2014 - 2015  
Names.....GNIS, 2015  
Hydrography.....National Hydrography Dataset, 2014  
Contours.....National Elevation Dataset, 2003  
Boundaries.....Multiple sources; see metadata file 1972 - 2015  
Wetlands.....FWS National Wetlands Inventory 1977 - 2014



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.19



QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	9

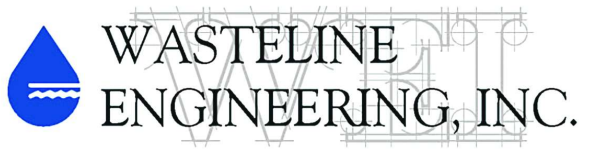
ADJOINING QUADRANGLES

ROAD CLASSIFICATION  
Expressway  
Secondary Hwy  
Ramp  
Interstate Route  
Local Connector  
Local Road  
4WD  
US Route  
State Route

MALLARD HILL, TX  
2016







## Attachment 4 – Major Component List

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## Major Components

Type of Unit

Number of Units

Size (Depth, Width, Length)

### Initial Phase

Aeration Basin	One	13' L x 12' W x 12' D
Clarifier	One	12' Dia x 12' D
Chlorine Basin	One	2' L x 12' W x 8' D
Pump Tank	One	8.5' L x 12' W x 12' D
Aerobic Digester	One	6' L x 12' W x 12' D

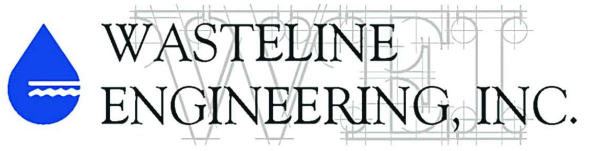
### Phase 2

Aeration Basin	Two	13' L x 12' W x 12' D
Clarifier	Two	12' Dia x 12' D
Chlorine Basin	Two	2' L x 12' W x 8' D
Pump Tank	Two	8.5' L x 12' W x 12' D
Aerobic Digester	Two	6' L x 12' W x 12' D

### Final Phase

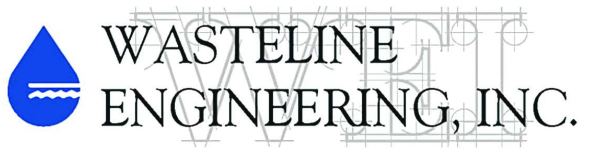
Aeration Basin	Three	13' L x 12' W x 12' D
Clarifier	Three	12' Dia x 12' D
Chlorine Basin	Three	2' L x 12' W x 8' D
Pump Tank	Three	8.5' L x 12' W x 12' D
Aerobic Digester	Three	6' L x 12' W x 12' D





## Attachment 5 – Flow Diagram

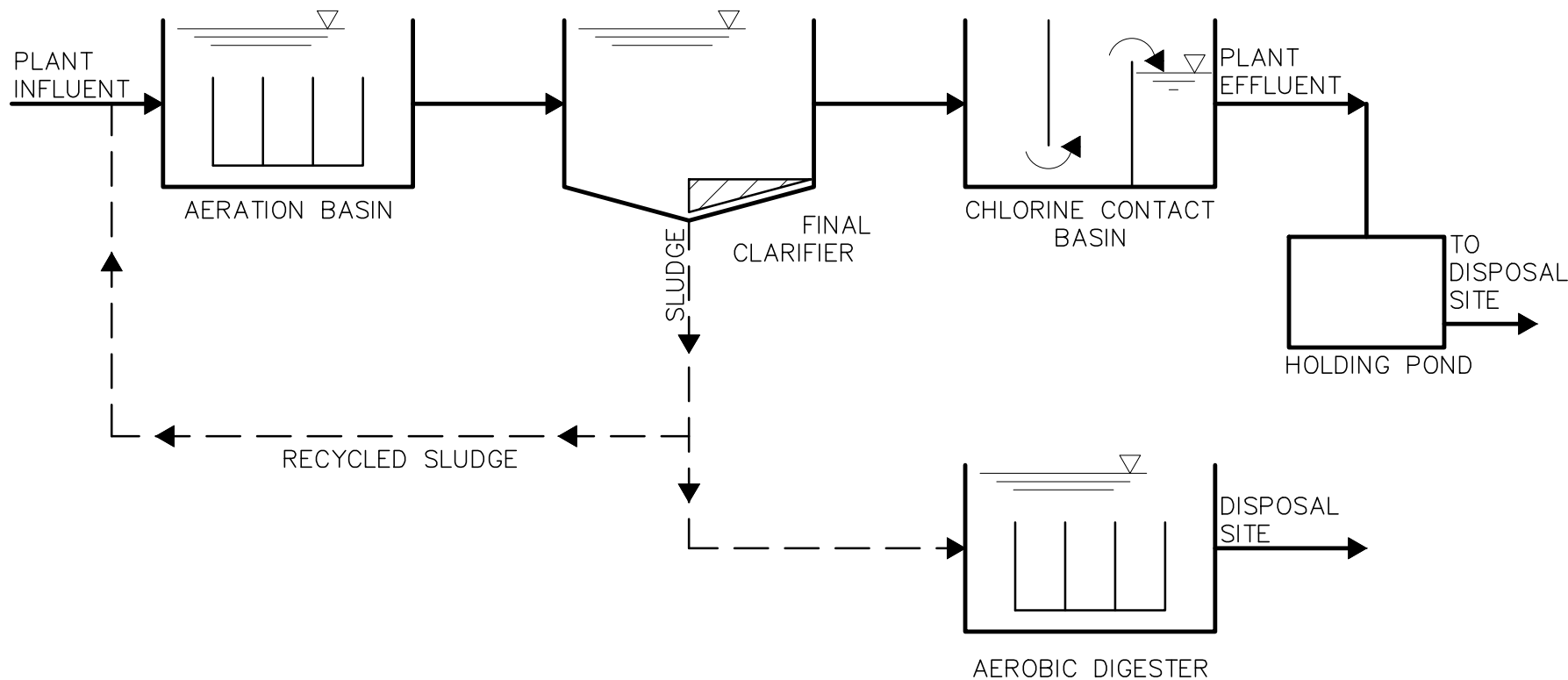
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## Attachment 13 – Soil Report

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W:\Jobs\2024 - Projects\22414 - LWDD - Long Cover Permit Renewal\Permit Documents\CAD\22414 - LWDD - Flow Diagram.dwg August 20, 2024 04:55pm

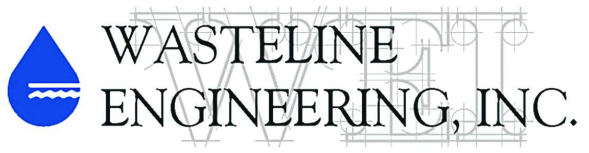


FLOW DIAGRAM

Date: August 2024  
Drawn by: J.A.F.  
Designed by: G.B.  
QA: G.B.  
Project Job#: 22414

WASTELINE  
ENGINEERING, INC.  
Texas Registered Engineering Firm #F-1669

WWTP PERMIT RENEWAL  
FOR  
LAKE VIEW MANAGEMENT AND DEVELOPMENT DISTRICT  
FLOW DIAGRAM



## Attachment 6 – Site Map

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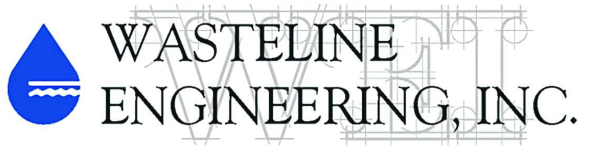


Date: August 2024  
Drawn by: J.F.  
Designed by: G.B.  
QA: G.B.  
Project Job#: 22414

**WASTELINE  
ENGINEERING, INC.**  
Texas Registered Engineering Firm #F-1669

WWTP PERMIT RENEWAL  
FOR  
LAKE VIEW MANAGEMENT & DEVELOPMENT  
**SITE MAP**

ATTACHMENT  
**A6**



## Attachment 7 – Pond Liner Certification

---





# WASTELINE ENGINEERING, INC.

P.O. Box 421  
208 South Front Street  
Aledo, Texas 76008  
817-441-1300 p  
817-441-1033 f  
[www.wasteline-eng.com](http://www.wasteline-eng.com)

December 14, 2021

TCEQ Regional Office (MC-Region 5)  
Water Quality Compliance Monitoring Section (MC-224)  
Water Quality Assessment Team (MC-150)  
PO Box 13087  
Austin, Texas 78711-3087

RE: Lake View Management and Development District  
Long Cove WWTP  
Permit No.: WQ0015631001  
Completed Pond Liner Certification

Gentlemen:

This letter is provided to certify to you that the pond liner for the holding pond that has been constructed at the referenced facility complies with the requirements of 30 TAC 217.203 and 30 TAC 309.13(d).

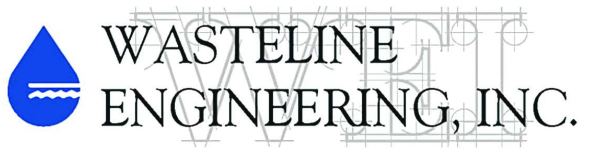
The holding pond has a synthetic HDPE liner with a thickness of 40 mils and an underdrain leak detection system.

Should you have questions concerning the above, please do not hesitate to contact this office.

Very truly yours,  
**WASTELINE ENGINEERING, INC.**  
*Tx Registered Engineering Firm #F-1669*

Glenn Breisch, P.E.

cc: LVMDD



## Attachment 8 – Cropping Plan

---



## Cropping Plan

---

The only crop present will be Bermuda / Rye and other native grasses and will have an irrigated area of approximately 4.5 acres.

The growing season for each grass crop will be year-round.

Nutrient requirements for each crop:

Crop	Nitrogen (lbs/acre-yr)	Phosphorus (lbs/acre-yr)	Potassium (lbs/acre-yr)
Bermuda / Rye	50 – 400	35 – 45	225

Data was taken from Table 7.5, Nutrient Uptake Rates for Selected Crops in *Natural Systems for Waste Management and Treatment*, 2<sup>nd</sup> Edition by Sherwood C. Reed, Ronald W. Crites, E. Joe Middlebrooks. \*Coastal Bermuda data was used for the grass crop nutrient requirements data

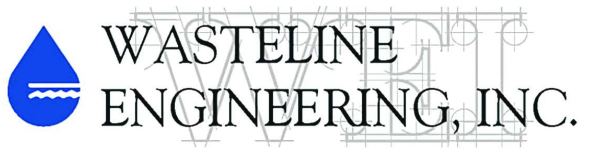
No additional fertilizer application will be required. The effluent will provide adequate nitrogen to sustain a healthy crop.

No supplemental watering should be required.

Pasture grasses have a salt tolerance that ranges between 6.0 and 8.0 millimhos/cm at 25°C.

The grass will be cut by mowing between 3 – 4 times each year to allow for a full cycle of the growth and maturation phase in order to utilize the maximum evapotranspiration rates of the crop. At least one time per year, the grass clippings will be either hauled off site, used for compost at another location, or baled and sold. For Bermuda/Rye grasses, the minimum suggested harvest height is two (2) to three (3) inches, while the maximum suggested harvest height is eight (8) to twelve (12) inches. The expected yield goal is between five thousand (5,000) and six thousand (6,000) pounds per acre.

Although Bermuda has been seeded across the irrigated area, native grasses have intermixed with the introduced grass and co-exist. The crop(s) will not build up nutrients since the level of nitrogen uptake is approximately 2.9 times higher than the nitrogen concentration being introduced into the soils.

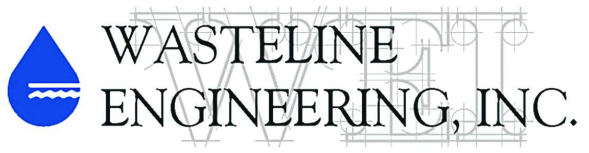


## Attachment 9 – Water Well Information

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## Well and Map Information

#	Well ID	Well Use	Producing? (Y/N)	Open, Cased, Capped, or Plugged?	Management Practice
1	342269	Monitor	Yes	Open	Maintain Appropriate Buffer
2	183361	Irrigation	Yes	Open	Maintain Appropriate Buffer
3	148596	Closed-Loop Geothermal	Yes	Open	Maintain Appropriate Buffer
4	124874	Domestic	Yes	Open	Maintain Appropriate Buffer
5	309976	Domestic	Yes	Open	Maintain Appropriate Buffer
6	331246	Domestic	Yes	Open	Maintain Appropriate Buffer
7	460316	Domestic	Yes	Open	Maintain Appropriate Buffer
8	293466	Domestic	Yes	Open	Maintain Appropriate Buffer
9	10899	Environmental Soil Boring	Yes	Open	Maintain Appropriate Buffer



## Attachment 10 – Water Well Reports

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## STATE OF TEXAS WELL REPORT for Tracking #342268

Owner:	<b>Choices Grocery</b>	Owner Well #:	<b>MW-1</b>
Address:	<b>4530 TX-198 Malakoff, TX 75148</b>	Grid #:	<b>33-56-6</b>
Well Location:	<b>4530 TX-198 Malakoff, TX 75148</b>	Latitude:	<b>32° 11' 57" N</b>
Well County:	<b>Henderson</b>	Longitude:	<b>096° 01' 24" W</b>
		Elevation:	<b>348 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Monitor</b>

Drilling Start Date: **9/24/2013**      Drilling End Date: **9/24/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.25</b>	<b>0</b>	<b>25</b>

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **16/30 Sand**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>1 Concrete</b>
	<b>2</b>	<b>13</b>	<b>10 Bentonite</b>
	<b>13</b>	<b>25</b>	<b>4 Sand</b>

Seal Method: **Gravity**

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:

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

Chemical Analysis Made: **Unknown**

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

---

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

Company Information: **Sunbelt Industrial Services**  
**2415 Cullen St**  
**Fort Worth, TX 76107**

Driller Name: **Robert L. Flair** License Number: **2948**

Comments: **DE13244**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>15</b>	<b>Red Sand</b>
<b>15</b>	<b>25</b>	<b>Tan Sandy Clay</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>2"</b>	<b>New</b>	<b>PVC Riser</b>	<b>0-15' SCH 40</b>
<b>2"</b>	<b>New</b>	<b>Screen</b>	<b>15-25' 0.010 Slot</b>

---

#### 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 #183361

Owner: **Long Cove Land Company**

Owner Well #: **No Data**

Address: **3261 Highway 198 North  
Malakoff, TX 75148**

Grid #: **33-56-6**

Well Location: **3261 Highway 198 North  
Malakoff, TX 75148**

Latitude: **32° 11' 34" N**

Longitude: **096° 01' 33" W**

Well County: **Henderson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **3/22/2004**

Drilling End Date: **8/2/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12.25</b>	<b>0</b>	<b>340</b>
	<b>6.25</b>	<b>0</b>	<b>380</b>

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

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>237</b>	<b>340</b>	<b>Gravel</b>	<b>12 x 20</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>8 cement</b>
	<b>180</b>	<b>237</b>	<b>15 cement</b>

Seal Method: **Tremie**

Distance to Property Line (ft.): **1000**

Sealed By: **Unknown**

Distance to Septic Field or other  
concentrated contamination (ft.): **n/a**

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

Method of Verification: **owner**

Surface Completion: **Surface Slab Installed**

Water Level: **170.3 ft. below land surface on 2004-03-26**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **300**

Well Tests: **Pump** **Yield: 48 GPM with 117.73 ft. drawdown after 2 hours**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Andrews & Foster**  
**P.O. Box 348**  
**Athens, TX 75751**

Driller Name: **Donald A. Foster**

License Number: **2023**

Comments: **\$scd**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>tan sand silt</b>
<b>2</b>	<b>6</b>	<b>red clay</b>
<b>6</b>	<b>8</b>	<b>red and tan clay</b>
<b>8</b>	<b>25</b>	<b>tan clay</b>
<b>25</b>	<b>46</b>	<b>gray clay</b>
<b>46</b>	<b>72</b>	<b>gray shale</b>
<b>72</b>	<b>77</b>	<b>gray sand fine</b>
<b>77</b>	<b>196</b>	<b>gray sandy shale</b>
<b>196</b>	<b>199</b>	<b>gray sand</b>
<b>199</b>	<b>244</b>	<b>gray sandy shale</b>
<b>244</b>	<b>258</b>	<b>gray sand with shale streaks</b>
<b>258</b>	<b>267</b>	<b>gray sand</b>
<b>267</b>	<b>274</b>	<b>gray shale</b>
<b>274</b>	<b>297</b>	<b>gray sand with shale streaks</b>
<b>297</b>	<b>322</b>	<b>gray sand</b>
<b>322</b>	<b>380</b>	<b>gray shale</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>6 N</b>	<b>PVC</b>	<b>casing</b>	<b>+2-298</b>
<b>6 N</b>	<b>PVC</b>	<b>slotted</b>	<b>298-318 020</b>
<b>6 N</b>	<b>PVC</b>	<b>casing</b>	<b>318-328</b>



---

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

## STATE OF TEXAS WELL REPORT for Tracking #148596

Owner:	<b>Don McNamara</b>	Owner Well #:	<b>No Data</b>
Address:	<b>3261 State Hwy 198 Malakoff, TX 75148</b>	Grid #:	<b>33-56-6</b>
Well Location:	<b>3261 State Hwy 198 Malakoff, TX 75148</b>	Latitude:	<b>32° 11' 32" N</b>
Well County:	<b>Henderson</b>	Longitude:	<b>096° 01' 39" W</b>
		Elevation:	<b>772 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Closed-Loop Geothermal</b>

Drilling Start Date: **6/16/2008**      Drilling End Date: **6/18/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>4.75</b>	<b>0</b>	<b>240</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Pressure grouted**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>240</b>	<b>8</b>

Seal Method: **Pressure grouted with  
benseal EZ-Mud**

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:

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

Chemical Analysis Made: **No**

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

---

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

Company Information: **Johnson Drilling, Inc.**  
**PO Box 448**  
**Blue Ridge, TX 75424**

Driller Name: **Mark Johnson**

License Number: **3178**

Apprentice Name: **Brent Elder**

Apprentice Number: **57833**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>From (ft)</i>	<i>To (ft)</i>	<i>Description</i>
<b>0-2</b>		<b>Topsoil-Brown</b>
<b>2-26</b>		<b>Shale-Tan</b>
<b>26-180</b>		<b>Sand-Grey</b>
<b>180-200</b>		<b>Sand and Rock-Grey</b>
<b>200-240</b>		<b>Sand-Grey</b>
<b>12 Wells @</b>	<b>240</b>	

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>1"</b>	<b>New</b>	<b>Polyethelene Loops</b>	<b>-4 to 240' SDR 11</b>

---

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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 #124874

Owner: **McNarosa Ranch**  
Address: **3261 Hwy 189 N  
Makakoff, TX 75148**  
Well Location: **3261 Hwy 198 N  
Malakoff, TX 75148**  
Well County: **Henderson**

Owner Well #: **No Data**  
Grid #: **33-56-6**  
Latitude: **32° 11' 29" N**  
Longitude: **096° 01' 36" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/10/2003** Drilling End Date: **11/12/2003**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>300</b>
	<b>6.25</b>	<b>0</b>	<b>300</b>

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

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>244</b>	<b>300</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>15</b>	<b>4</b>
	<b>175</b>	<b>224</b>	<b>12</b>

Seal Method: **Tremie**

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

Sealed By: **AF**

Distance to Septic Field or other  
concentrated contamination (ft.): **200**

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

Method of Verification: **Owner**

Surface Completion: **Surface Slab Installed**

Water Level: **148 ft. below land surface on 2003-11-12** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible 2 HP** Pump Depth (ft.): **231**

Well Tests: **Jetted** **No Test Data Specified**

---

Water Quality:

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

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which  
contained injurious constituents?: **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: **Andrews & Foster Drilling Co. Inc.**

**PO Box 348  
Athens, TX 75751**

Driller Name: **Ronald D. Ellis**

License Number: **3243**

Comments: **No Data**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>1</b>	<b>Tan Sandy Silt</b>
<b>1</b>	<b>3</b>	<b>Red Clay</b>
<b>3</b>	<b>17</b>	<b>Tan Clay</b>
<b>17</b>	<b>28</b>	<b>Lignite</b>
<b>28</b>	<b>65</b>	<b>Gray Clay &amp; Sand STKS</b>
<b>65</b>	<b>90</b>	<b>Gray Sand</b>
<b>90</b>	<b>163</b>	<b>Gray Wand w/Shale STKS</b>
<b>163</b>	<b>190</b>	<b>Gray Sandy Shale</b>
<b>190</b>	<b>255</b>	<b>Gray Sand Shale STKS</b>
<b>255</b>	<b>260</b>	<b>Sandstone</b>
<b>260</b>	<b>285</b>	<b>Gray Sand</b>
<b>285</b>	<b>300</b>	<b>Gray Sandy Shale</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>4 N</b>	<b>PVC</b>	<b>Casing</b>	<b>2-(-)260</b>
<b>4 N</b>	<b>PVC</b>	<b>Slotted</b>	<b>-206-(-)280 020</b>

---

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

## STATE OF TEXAS WELL REPORT for Tracking #309976

Owner: **Long Cove Development**

Owner Well #: **No Data**

Address: **3232 McKinney Ave.  
Dallas, TX 75204**

Grid #: **33-56-6**

Well Location: **3498 SH 198  
Malakoff, TX 75148**

Latitude: **32° 11' 26" N**

Longitude: **096° 01' 11" W**

Well County: **Henderson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/3/2012**

Drilling End Date: **12/7/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9.875</b>	<b>0</b>	<b>390</b>
	<b>7.875</b>	<b>0</b>	<b>390</b>

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

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>250</b>	<b>320</b>	<b>Gravel</b>	<b>12 x 20</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>10 Cement</b>
	<b>10</b>	<b>200</b>	<b>15 Grout</b>
	<b>200</b>	<b>250</b>	<b>8 Cement</b>

Seal Method: **Tremie**

Distance to Property Line (ft.): **100+**

Sealed By: **Unknown**

Distance to Septic Field or other  
concentrated contamination (ft.): **100+**

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

Method of Verification: **Owner**

Surface Completion: **Surface Slab Installed**

Water Level: **179.52 ft. below land surface on 2012-12-07** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **273**

Well Tests: **Jetted** Yield: **12 GPM with 30 ft. drawdown after 3 hours**

---

Water Quality:

Strata Depth (ft.)	Water Type
<b>-280</b>	<b>Fresh</b>

Chemical Analysis Made: **No**

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

---

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

Company Information: **Andrews & Foster Drilling**

**PO Box 348  
Athens, TX 75751**

Driller Name: **Donald A Foster**

License Number: **2023**

Comments: **Could not read name of assistant on report. Did not add it.  
^EAD**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
<b>0</b>	<b>6</b>	<b>red sandy clay</b>
<b>6</b>	<b>32</b>	<b>tan sandy clay</b>
<b>32</b>	<b>38</b>	<b>gray shale</b>
<b>38</b>	<b>52</b>	<b>tan sandy clay</b>
<b>52</b>	<b>60</b>	<b>gray shale</b>
<b>60</b>	<b>83</b>	<b>gray shale lignite streaks</b>
<b>83</b>	<b>91</b>	<b>gray sandy clay</b>
<b>91</b>	<b>205</b>	<b>gray shale</b>
<b>205</b>	<b>225</b>	<b>gray sandy clay</b>
<b>225</b>	<b>285</b>	<b>gray shale</b>
<b>285</b>	<b>300</b>	<b>gray sandy clay</b>
<b>300</b>	<b>390</b>	<b>gray shale</b>

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
<b>4.5"</b>	<b>N</b>	<b>PVC Casing</b>	<b>+2' to -280'</b>
<b>4.5"</b>	<b>N</b>	<b>PVC Slotted</b>	<b>-280' to -300' .020</b>
<b>4.5"</b>	<b>N</b>	<b>PVC Casing</b>	<b>-300' to -320'</b>



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

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

## STATE OF TEXAS WELL REPORT for Tracking #331246

Owner: **Larry Smith**  
Address: **620 Hillcrest  
Malakoff, TX 75148**  
Well Location: **No Data**  
Well County: **Henderson**

Owner Well #: **1**  
Grid #: **34-49-4**  
Latitude: **32° 10' 57" N**  
Longitude: **095° 59' 43" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/17/2011**

Drilling End Date: **7/18/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>280</b>

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

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>240</b>	<b>280</b>	<b>Gravel</b>	<b>1</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>12</b>
	<b>140</b>	<b>240</b>	<b>14</b>

Seal Method: **tremmie**

Distance to Property Line (ft.): **300**

Sealed By: **PWW**

Distance to Septic Field or other  
concentrated contamination (ft.): **500**

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

Method of Verification: **owner**

Surface Completion: **Alternative Procedure Used**

Water Level: **54 ft. below land surface on 2011-07-18** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **180**

Well Tests: **Jetted** Yield: **15 GPM with 35 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
<b>240</b>	<b>wilcox</b>

Chemical Analysis Made: **No**

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

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

Company Information: **Phillips Water Well**  
**11752 CR 3819**  
**Athens, TX 75752**

Driller Name: **Shea Phillips**

License Number: **4323**

Comments: **^ycl**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
<b>0</b>	<b>40</b>	<b>clay/sand/clay/sand</b>
<b>40</b>	<b>60</b>	<b>sand/rock/lignite/sand</b>
<b>60</b>	<b>80</b>	<b>sand</b>
<b>80</b>	<b>100</b>	<b>rock/sand/clay/sand</b>
<b>100</b>	<b>120</b>	<b>sand/lignite/white sand</b>
<b>120</b>	<b>180</b>	<b>white sand</b>
<b>180</b>	<b>200</b>	<b>clay/lignite</b>
<b>200</b>	<b>240</b>	<b>sand/rock/sand</b>
<b>240</b>	<b>280</b>	<b>sand</b>

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
<b>4</b>	<b>New</b>	<b>PVC</b>	<b>0 to 240</b>
<b>4</b>	<b>New</b>	<b>PVC</b>	<b>240 to 280 .016</b>

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

## STATE OF TEXAS WELL REPORT for Tracking #460316

Owner:	<b>Jason &amp; Heather Hayes</b>	Owner Well #:	<b>1</b>
Address:	<b>P.O.Box 792 Malakoff, TX 75148</b>	Grid #:	<b>33-56-6</b>
Well Location:	<b>630 Hillcrest Malakoff, TX 75148</b>	Latitude:	<b>32° 10' 56.46" N</b>
Well County:	<b>Henderson</b>	Longitude:	<b>096° 00' 05.62" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **6/1/2017**

Drilling End Date: **6/1/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>270</b>

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

Borehole Completion: **Screened**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>3</b>	<b>Cement 3 Bags/Sacks</b>
	<b>3</b>	<b>10</b>	<b>Bentonite 3 Bags/Sacks</b>
	<b>190</b>	<b>220</b>	<b>Cement 6 Bags/Sacks</b>

Seal Method: **Tremie**

Distance to Property Line (ft.): **325**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **140**

Distance to Septic Tank (ft.): **140**

Method of Verification: **Owner Measured**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level:	<b>121 ft. below land surface, and 0 GPM artesian flow on 2017-06-01</b>	Measurement Method:	<b>Sonic/Radar</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>252</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>20 GPM with 30 ft. drawdown after 2 hours</b>

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>218 - 270</b>	<b>Fresh</b>

Chemical Analysis Made: **No**

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

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

Company Information: **Comb's Well Service**

**5745 FM 2494  
Athens, TX 75751**

Driller Name: **Tracy Logan**

License Number: **55083**

Apprentice Name: **Adam Logan**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>Sand</b>
<b>2</b>	<b>11</b>	<b>Clay</b>
<b>11</b>	<b>18</b>	<b>Sandy Clay</b>
<b>18</b>	<b>42</b>	<b>Clay / Lignite</b>
<b>42</b>	<b>125</b>	<b>Shale</b>
<b>125</b>	<b>135</b>	<b>Sandy Shale</b>
<b>135</b>	<b>195</b>	<b>Shale</b>
<b>195</b>	<b>205</b>	<b>Sandy Shale</b>
<b>205</b>	<b>218</b>	<b>Shale</b>
<b>218</b>	<b>240</b>	<b>Sandy Shale</b>
<b>240</b>	<b>270</b>	<b>Sand</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>4</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>Sch. 40</b>	<b>0</b>	<b>230</b>
<b>4</b>	<b>Screen</b>	<b>New Plastic (PVC)</b>	<b>Sch. 40 0.020</b>	<b>230</b>	<b>270</b>

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

## STATE OF TEXAS WELL REPORT for Tracking #293466

Owner: **Tommy Tanner**  
Address: **616 Hillcrest  
Malakoff, TX 75148**  
Well Location: **616 Hillcrest  
Malakoff, TX 75148**  
Well County: **Henderson**

Owner Well #: **1**  
Grid #: **34-49-4**  
Latitude: **32° 10' 49" N**  
Longitude: **095° 59' 56" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/29/2011** Drilling End Date: **12/29/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>330</b>

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

Borehole Completion: **Filter Packed; Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>235</b>	<b>330</b>	<b>Gravel</b>	<b>16/30</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>5 Cement</b>
	<b>210</b>	<b>235</b>	<b>5 Cement</b>

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **150**

Sealed By: **CWS**

Distance to Septic Field or other  
concentrated contamination (ft.): **na**

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

Method of Verification: **Owner**

Surface Completion: **Surface Slab Installed**

Water Level: **114 ft. below land surface, and 0 GPM** Measurement Method: **Unknown**  
artesian flow on **2012-12-29**

Packers: **Plastic 10'**

Type of Pump: **Submersible** Pump Depth (ft.): **273**

Well Tests: **Jetted** Yield: **30 GPM with 137 ft. drawdown after 24 hours**

Water Quality:

Strata Depth (ft.)	Water Type
<b>250</b>	<b>Wilcox</b>

Chemical Analysis Made: **No**

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

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

Company Information: **Comb's Well Service**  
**5745 FM 2494**  
**Athens, TX 75751**

Driller Name: **Tracy Logan**

License Number: **55083**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
<b>0</b>		<b>Sand</b>
<b>2</b>		<b>Clay</b>
<b>6</b>		<b>Lignite</b>
<b>8</b>		<b>Clay</b>
<b>13</b>		<b>Sand</b>
<b>17</b>		<b>Clay</b>
<b>30</b>		<b>Sand</b>
<b>35</b>		<b>Shale</b>
<b>70</b>		<b>Sandy Clay</b>
<b>80</b>		<b>Lignite / Shale</b>
<b>210</b>		<b>Sandy Shale</b>
<b>230</b>		<b>Shale</b>
<b>250</b>		<b>Sandy Shale</b>
<b>256</b>		<b>Shale</b>
<b>265</b>		<b>Sandy Shale</b>
<b>330</b>		<b>TD</b>

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
<b>4.5</b>	<b>N</b>	<b>PVC</b>	<b>- Blank 0 - 250 SDR-17</b>
<b>4.5</b>	<b>N</b>	<b>PVC</b>	<b>- Screen 250-330 .020</b>



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## STATE OF TEXAS WELL REPORT for Tracking #10899

Owner: **Triple A Oil Co.**

Owner Well #: **b3**

Address: **12342 Inwood  
Dallas, TX 75244**

Grid #: **33-56-6**

Well Location: **NE corner of S.R. 31 @ S.R. 198  
Malakoff, TX 75148**

Latitude: **32° 10' 41" N**

Longitude: **096° 00' 27" W**

Well County: **Henderson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Environmental Soil Boring**

Drilling Start Date: **8/9/2002**

Drilling End Date: **8/9/2002**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
<b>7.25</b>	<b>0</b>	<b>20</b>

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **12/20 silica Sand**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
<b>2</b>	<b>20</b>	<b>Gravel</b>	

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
<b>0</b>	<b>1</b>	<b>1 cem</b>
<b>1</b>	<b>2</b>	<b>1 ben</b>

Seal Method: **Gravity**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

---

Water Quality:

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

Chemical Analysis Made: **Unknown**

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

---

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

Company Information: **W.E.S.T. Drilling**  
**101 Industrial**  
**Waxahachie, TX 75165**

Driller Name: **Tom McCullough** License Number: **4806**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>20</b>	<b>Tn Br Sa Cl</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>2 n</b>	<b>PVC</b>	<b>Screen</b>	<b>20/2.5 .010</b>
<b>2 n</b>	<b>PVC</b>	<b>Screen</b>	<b>2.5/0 Sch40</b>

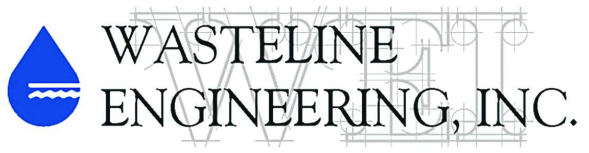
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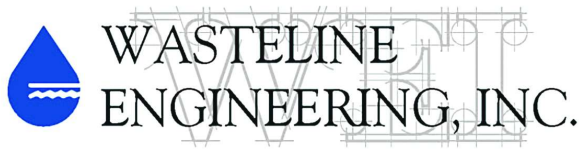
Please include the report's Tracking Number on your written request.

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**Austin, TX 78711**  
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## Attachment 11 – Groundwater Quality Technical Report

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## Groundwater Quality Technical Report

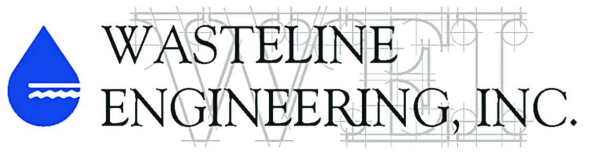
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The purpose of this report is to provide documentation which illustrates the proposed regulated activities will not negatively impact the quality of groundwater.

The groundwater resources in the project area primarily include the northern portion of the Carrizo-Wilcox Aquifer. After reviewing the water table and screen intervals of the wells in the area, the Carrizo-Wilcox is considered to be confined. This Northern region is composed of sediments that are part of a gulf-ward thickening wedge of Cenozoic sediments deposited in the East Texas Basin and the Houston Embayment of the Gulf Coast Basin. The soil types around the project area include Axtell Loam, Crockett Loam, Freestone Fine Sandy Loam, and Wilson Loam.

Each of the 11 water wells within a one-half mile radius of the application site boundary have been located on a USGS 7.5 Minute Topographical Map. Five of these wells show to be used for domestic purposes. It is recommended that all appropriate buffers should be maintained through the lifetime of this permit. The attached well logs indicate the average depth to groundwater to be between 54 feet to 180 feet in depth, with an average of 127 feet. Screen intervals for these wells begin around 206 feet and end as deep as 330 feet. For further information regarding the well casing, yield, static elevation, water quality, and age, please refer to the provided well logs.

From the water balance submitted in the original application, we can see that the maximum average application rate was determined to be approximately 2.58 in/month. Effluent shall be applied at agronomic rates to ensure contaminants do not seep below the root zone. In an effort to prevent groundwater contamination, we will be surrounding the perimeter of the application site by a six-inch-high by twelve-inch-wide earthen berm to prevent runoff of applied effluent. There will also be a 4 foot wide berm surrounding the holding pond which will slope away from the pond at a four to one ratio to prevent any runoff into the stored effluent. Considering this is a permit renewal, there is a pond liner certification attached to the application.



## Attachment 12 – Well Map

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Based on the information above, it is our opinion that the construction and operation of the Long Cove wastewater treatment plant will not negatively impact the quality of groundwater in the area.

Very truly yours,  
WASTELINE ENGINEERING, INC.  
Texas Registered Engineering Firm #F-1669  
Glenn Breisch, P.E.

A handwritten signature in blue ink, appearing to read "Glenn Breisch", with a large, stylized circular flourish at the end.

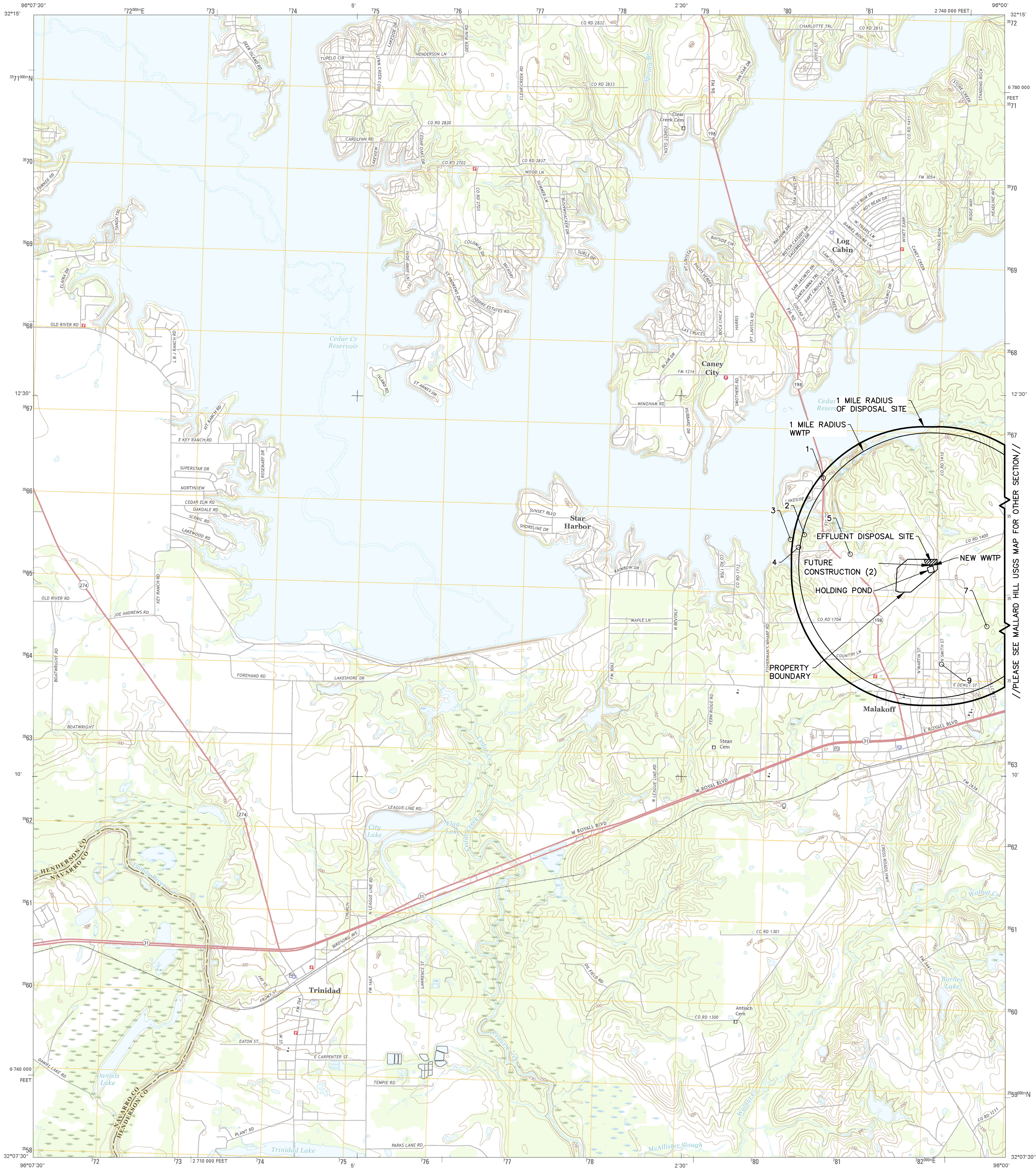




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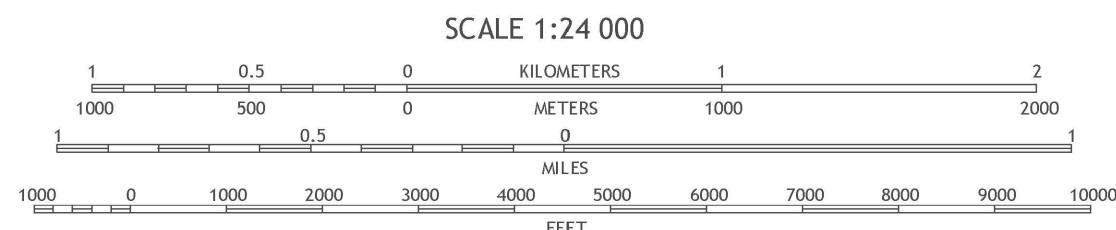
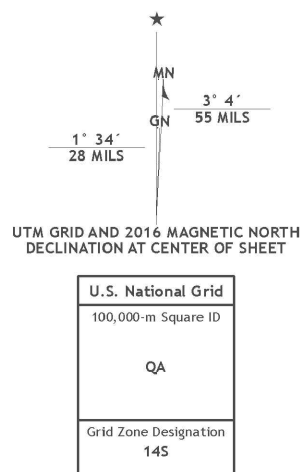


MALAKOFF QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



//PLEASE SEE MALLARD HILL USGS MAP FOR OTHER SECTION //

Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 14S  
10 000-foot ticks: Texas Coordinate System of 1983 (north  
central zone)  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.  
Imagery.....NAIP, August 2014  
Roads.....U.S. Census Bureau, 2014 - 2015  
Names.....National Hydrography Dataset, 2014  
Hydrography.....National Hydrography Dataset, 2014  
Contours.....National Elevation Dataset, 2003  
Boundaries.....Multiple sources; see metadata file 1972 - 2015  
Wetlands.....FWS National Wetlands Inventory 1977 - 2014



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.19



ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

1	2	3
4	5	6
7	8	9

1 Tool  
2 Mabank  
3 Stockard  
4 Kerens  
5 Mallard Hill  
6 Goodlow Park  
7 Cressler Ranch  
8 Cross Roads

MALAKOFF, TX  
2016



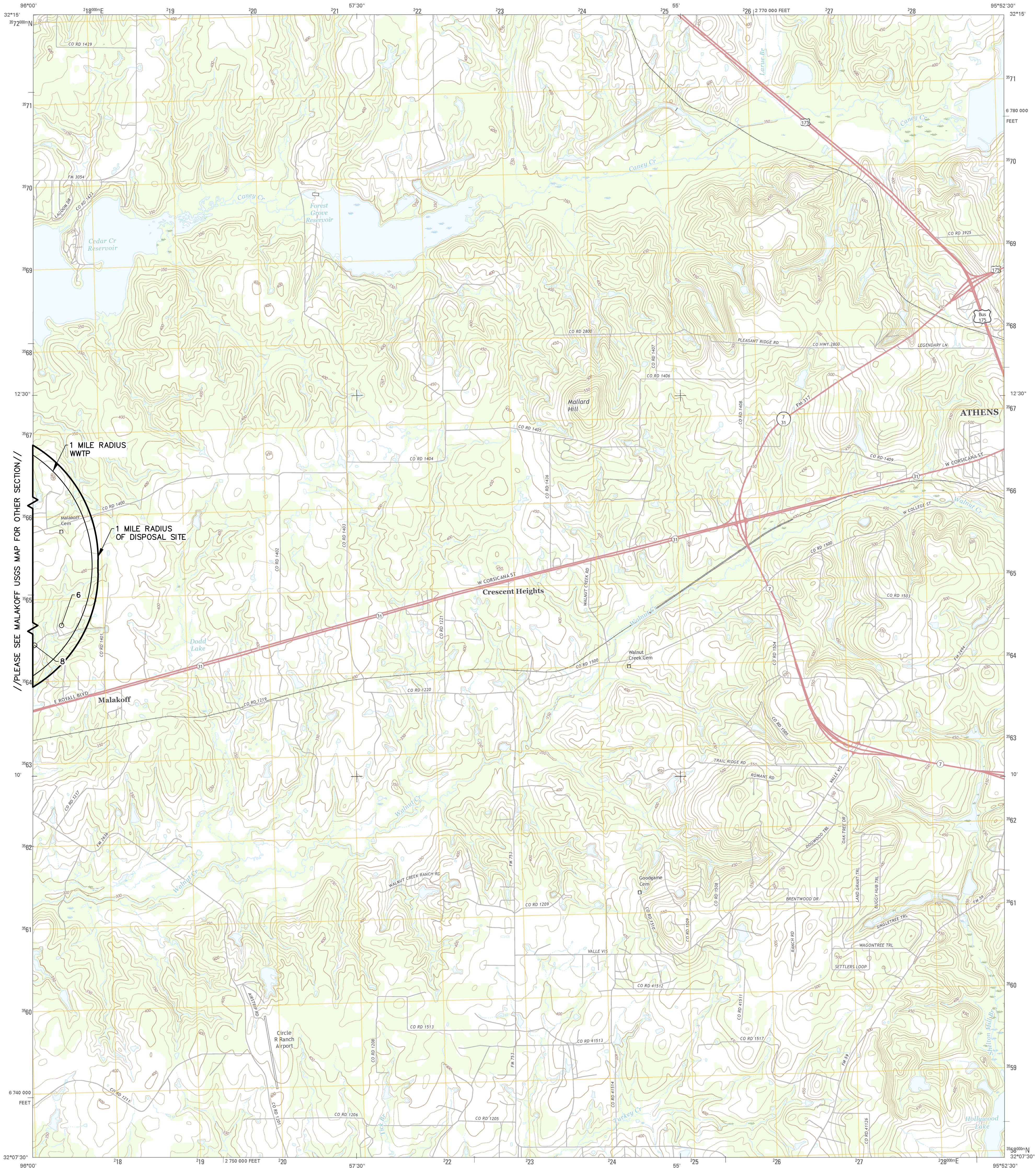




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U.S. GEOLOGICAL SURVEY

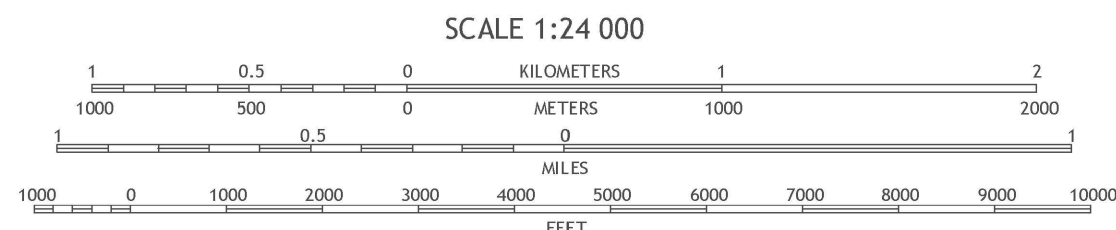
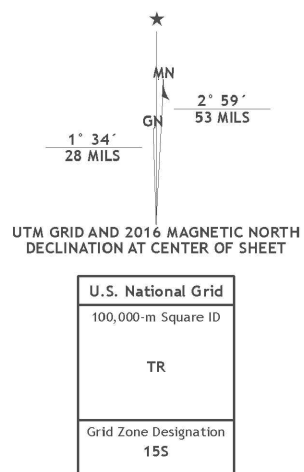


MALLARD HILL QUADRANGLE  
TEXAS-HENDERSON CO.  
7.5-MINUTE SERIES



//PLEASE SEE MALAKOFF USGS MAP FOR OTHER SECTION//

Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 15S  
10 000-foot ticks: Texas Coordinate System of 1983 (north  
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This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.  
Imagery.....NAIP, July 2014  
Roads.....U.S. Census Bureau, 2014 - 2015  
Names.....GNIS, 2015  
Hydrography.....National Hydrography Dataset, 2014  
Contours.....National Elevation Dataset, 2003  
Boundaries.....Multiple sources; see metadata file 1972 - 2015  
Wetlands.....FWS National Wetlands Inventory 1977 - 2014



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.19



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
	State Route

MALLARD HILL, TX  
2016







WASTELINE  
ENGINEERING, INC.

## Attachment 13 – Soil Report

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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 Henderson County, Texas



July 22, 2024

# Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

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

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

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

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# How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

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

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



## Custom Soil Resource Report

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

# Soil Map

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

# Custom Soil Resource Report Soil Map



# Custom Soil Resource Report

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

### Water Features

 Streams and Canals

### Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Henderson County, Texas  
Survey Area Data: Version 21, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 19, 2023—Mar 5, 2023

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
1	Axtell loam, 1 to 5 percent slopes	9.9	47.5%
6	Crockett loam, 1 to 3 percent slopes	0.4	1.8%
16	Freestone fine sandy loam, 1 to 3 percent slopes	10.6	50.7%
42	Wilson loam, 0 to 1 percent slopes	0.0	0.0%
<b>Totals for Area of Interest</b>		<b>20.9</b>	<b>100.0%</b>

## Map Unit Descriptions

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

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

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

## Custom Soil Resource Report

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.

## Henderson County, Texas

### 1—Axtell loam, 1 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2shgb

*Elevation:* 250 to 650 feet

*Mean annual precipitation:* 42 to 43 inches

*Mean annual air temperature:* 63 to 65 degrees F

*Frost-free period:* 240 to 270 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Axtell and similar soils:* 87 percent

*Minor components:* 13 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Axtell

##### Setting

*Landform:* Stream terraces

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Convex, linear

*Parent material:* Clayey alluvium of pleistocene age derived from mudstone

##### Typical profile

*A - 0 to 8 inches:* loam

*Btss - 8 to 34 inches:* clay

*Btkss - 34 to 53 inches:* clay loam

*Btky - 53 to 80 inches:* sandy clay loam

##### Properties and qualities

*Slope:* 1 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Moderately well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Gypsum, maximum content:* 5 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 7.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* D

*Ecological site:* R087AY003TX - Claypan Savannah

*Hydric soil rating:* No

## Minor Components

### Silawa

*Percent of map unit:* 13 percent  
*Landform:* Stream terraces, stream terraces  
*Landform position (three-dimensional):* Riser  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Convex  
*Ecological site:* R087AY005TX - Sandy Loam  
*Hydric soil rating:* No

## 6—Crockett loam, 1 to 3 percent slopes

### Map Unit Setting

*National map unit symbol:* 2ssh4  
*Elevation:* 270 to 730 feet  
*Mean annual precipitation:* 38 to 47 inches  
*Mean annual air temperature:* 62 to 65 degrees F  
*Frost-free period:* 230 to 235 days  
*Farmland classification:* Farmland of statewide importance

### Map Unit Composition

*Crockett and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Crockett

#### Setting

*Landform:* Ridges  
*Landform position (two-dimensional):* Summit, shoulder  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Parent material:* Loamy residuum weathered from shale of cretaceous age

#### Typical profile

*A - 0 to 8 inches:* loam  
*Btss - 8 to 25 inches:* clay  
*Btkss - 25 to 45 inches:* clay  
*BCK - 45 to 53 inches:* clay  
*Cdk - 53 to 72 inches:* clay loam

#### Properties and qualities

*Slope:* 1 to 3 percent  
*Depth to restrictive feature:* 43 to 60 inches to densic bedrock  
*Drainage class:* Moderately well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.03 in/hr)



## Custom Soil Resource Report

*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 30 percent  
*Gypsum, maximum content:* 2 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 10.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* D  
*Ecological site:* R086AY003TX - Northern Claypan Prairie  
*Hydric soil rating:* No

### Minor Components

#### Normangee

*Percent of map unit:* 10 percent  
*Landform:* Ridges  
*Landform position (two-dimensional):* Summit, shoulder  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* R086AY003TX - Northern Claypan Prairie  
*Hydric soil rating:* No

#### Wilson

*Percent of map unit:* 5 percent  
*Landform:* Stream terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Ecological site:* R086AY003TX - Northern Claypan Prairie  
*Hydric soil rating:* No

## 16—Freestone fine sandy loam, 1 to 3 percent slopes

### Map Unit Setting

*National map unit symbol:* 2wg9c  
*Elevation:* 140 to 790 feet  
*Mean annual precipitation:* 40 to 48 inches  
*Mean annual air temperature:* 62 to 66 degrees F  
*Frost-free period:* 218 to 260 days  
*Farmland classification:* All areas are prime farmland

### Map Unit Composition

*Freestone and similar soils:* 85 percent  
*Minor components:* 15 percent

## Custom Soil Resource Report

*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Freestone

#### Setting

*Landform:* Stream terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Loamy alluvium derived from shale and siltstone

#### Typical profile

*Ap - 0 to 4 inches:* fine sandy loam  
*E - 4 to 11 inches:* fine sandy loam  
*Bt - 11 to 20 inches:* sandy clay loam  
*B/Et1 - 20 to 28 inches:* clay loam  
*B/Et2 - 28 to 44 inches:* clay  
*B't - 44 to 80 inches:* clay

#### Properties and qualities

*Slope:* 1 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* About 12 to 24 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 1 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:* High (about 9.6 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C/D  
*Ecological site:* R087BY003TX - Sandy Loam  
*Hydric soil rating:* No

### Minor Components

#### Raino

*Percent of map unit:* 10 percent  
*Landform:* Stream terraces  
*Landform position (three-dimensional):* Tread  
*Microfeatures of landform position:* Mounds  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* R087BY002TX - Claypan Savannah  
*Hydric soil rating:* No

#### Woodtell

*Percent of map unit:* 5 percent  
*Landform:* Ridges  
*Landform position (two-dimensional):* Summit

## Custom Soil Resource Report

*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* R087BY002TX - Claypan Savannah  
*Hydric soil rating:* No

### 42—Wilson loam, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* dbk5  
*Elevation:* 250 to 700 feet  
*Mean annual precipitation:* 32 to 45 inches  
*Mean annual air temperature:* 64 to 70 degrees F  
*Frost-free period:* 220 to 270 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Wilson and similar soils:* 100 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Wilson

##### Setting

*Landform:* Stream terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Parent material:* Clayey alluvium of quaternary age derived from mixed sources

##### Typical profile

*H1 - 0 to 6 inches:* loam  
*H2 - 6 to 71 inches:* clay  
*H3 - 71 to 75 inches:* clay

##### Properties and qualities

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Moderately well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 20 percent  
*Gypsum, maximum content:* 15 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 10.0  
*Available water supply, 0 to 60 inches:* Moderate (about 7.8 inches)

## Custom Soil Resource Report

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 3w

*Hydrologic Soil Group:* D

*Ecological site:* R086AY003TX - Northern Claypan Prairie

*Hydric soil rating:* No

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- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
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- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>

## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

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## Candice Calhoun

---

**From:** Jeremy Face <jface@wasteline-eng.com>  
**Sent:** Tuesday, May 6, 2025 2:32 PM  
**To:** Candice Calhoun  
**Cc:** Glenn Breisch; Guymon Phillips; Christine Graf; jim@ksm-llc.com  
**Subject:** RE: Application to Renew Permit No. WQ0015631001 - Lake View Management and Development District; Long Cove WWTP  
**Attachments:** 10053 - pg2.pdf

Good afternoon, Candice,

It is nice to hear from you.

The application type is “Publicly-Owned Domestic Wastewater”. Attached, please find the corrected application sheet.

Highest regards,  
Jeremy Face  
[Wasteline Engineering, Inc.](#)  
817-441-1300  
208 S Front Street  
Aledo, Texas 76008

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Thank you.

---

**From:** Candice Calhoun <Candice.Calhoun@tceq.texas.gov>  
**Sent:** Tuesday, May 6, 2025 2:18 PM  
**To:** Jeremy Face <jface@wasteline-eng.com>  
**Cc:** Glenn Breisch <gbreisch@wasteline-eng.com>; Guymon Phillips <Guymon@teamphillipsinc.com>; Christine Graf <Christine.Graf@tceq.texas.gov>  
**Subject:** RE: Application to Renew Permit No. WQ0015631001 - Lake View Management and Development District; Long Cove WWTP  
**Importance:** High

Good afternoon, Jeremy,

Our permitting team has reached out to me regarding the appropriate authorization type for this applicant. The application submitted, in section 2 of the admin report, the authorization type checked is “Privately-Owned Domestic Wastewater”, however, our system indicates that this is a “Publicly-Owned Domestic Wastewater”. Could you please confirm the correct authorization type for Lake View Management and Development District? If the correct

authorization type is "Publicly-Owned Domestic Wastewater", please provide an updated section 2 of the admin report to show that.

Please let me know if you have any questions.

Regards,



**Candice Courville**

License & Permit Specialist  
ARP Team | Water Quality Division  
Texas Commission on Environmental  
Quality  
512-239-4312  
[candice.calhoun@tceq.texas.gov](mailto:candice.calhoun@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at  
[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

---

**From:** Jeremy Face <[jface@wasteline-eng.com](mailto:jface@wasteline-eng.com)>

**Sent:** Friday, September 20, 2024 4:05 PM

**To:** Candice Calhoun <[Candice.Calhoun@tceq.texas.gov](mailto:Candice.Calhoun@tceq.texas.gov)>

**Cc:** Glenn Breisch <[gbreisch@wasteline-eng.com](mailto:gbreisch@wasteline-eng.com)>; Guymon Phillips <[Guymon@teamphillipsinc.com](mailto:Guymon@teamphillipsinc.com)>

**Subject:** RE: Application to Renew Permit No. WQ0015631001 - Lake View Management and Development District; Long Cove WWTP

Hi there Candice,

It appears the NORI language is acceptable as written, except for the street name. The correct address is 2728 Harwood Street. I have attached the Core Data Form with proper spelling.

Highest regards,

**Jeremy Face**

**Wasteline Engineering, Inc.**

817-441-1300

208 S Front Street

Aledo, Texas 76008

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Thank you.

---

**From:** Candice Calhoun <[Candice.Calhoun@tceq.texas.gov](mailto:Candice.Calhoun@tceq.texas.gov)>

**Sent:** Friday, September 20, 2024 3:28 PM

**To:** Jeremy Face <[jface@wasteline-eng.com](mailto:jface@wasteline-eng.com)>

**Cc:** Glenn Breisch <[gbreisch@wasteline-eng.com](mailto:gbreisch@wasteline-eng.com)>; Guymon Phillips <[Guymon@teamphillipsinc.com](mailto:Guymon@teamphillipsinc.com)>





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION  
ADMINISTRATIVE REPORT 1.0**

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

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

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

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

Minor Amendment (for any flow) \$150.00 ☐

**Payment Information:**

Mailed      Check/Money Order Number: 4169  
Check/Money Order Amount: \$315.00  
Name Printed on Check: Team Phillips, Inc.

EPAY      Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed?      Yes ☐

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

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

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

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

- ☒ Active      ☐ Inactive

## Candice Calhoun

---

**From:** Jeremy Face <jface@wasteline-eng.com>  
**Sent:** Friday, September 20, 2024 2:26 PM  
**To:** Candice Calhoun  
**Cc:** Glenn Breisch; Guymon Phillips  
**Subject:** RE: Application to Renew Permit No. WQ0015631001 - Lake View Management and Development District; Long Cove WWTP  
**Attachments:** - Complete TCEQ Response 1.pdf  
  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good afternoon, Ms. Calhoun,

Thank you for speaking with me about this permit application yesterday! Please find our office's response attached to this email.

Should you require anything further to aid in your review, please do not hesitate to contact me directly.

Highest regards,

Jeremy Face

**Wasteline Engineering, Inc.**

817-441-1300

208 S Front Street

Aledo, Texas 76008

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Thank you.

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**From:** Candice Calhoun <[Candice.Calhoun@tceq.texas.gov](mailto:Candice.Calhoun@tceq.texas.gov)>  
**Sent:** Tuesday, September 10, 2024 8:41 AM  
**To:** [guymon@teamphillipsinc.com](mailto:guymon@teamphillipsinc.com)  
**Cc:** Glenn Breisch <[gbreisch@wasteline-eng.com](mailto:gbreisch@wasteline-eng.com)>  
**Subject:** Application to Renew Permit No. WQ0015631001 - Lake View Management and Development District; Long Cove WWTP  
**Importance:** High

Good morning, Mr. Phillips,

The attached Notice of Deficiency (NOD) letter dated **September 10, 2024**, requests additional information needed to declare the application administratively complete. Please send complete response by **September 24, 2024**.

Please let me know if you have any questions.



# WASTELINE ENGINEERING, INC.

September 19, 2024

Texas Commission on Environmental Quality  
PO Box 13087  
Austin, Texas 78711-3087

**Attn: Ms. Candice Calhoun**  
Applications Review and Processing Team (MC 148)  
Water Quality Division  
Wastewater Permits Section

**Re: Application to Renew Permit No. WQ0015631001  
CN603151457; RN110054038  
Issued to Lake View Management and Development District.**

Ms. Calhoun:

We are in receipt of your letter dated September 10<sup>th</sup>, 2024, and offer the following in response to the items contained therein. Our responses are in the same order as the questions posed.

1. Section 8, Item B of the Administrative Report 1.0: The page has been revised to include the requested information. Please find the attached document in the email correspondence.
2. Section 8, Item C of the Administrative Report 1.0: The page has been revised to include the requested information. Please find the attached document in the email correspondence.
3. Section 8, Item D of the Administrative Report 1.0: The applicant was listed as the landowner for the wastewater facility. The applicant is an entity, not an individual, and thus does not have a first or last name, title, and so on. In an attempt to better reflect the correct information, I have attached a revised page in the email correspondence.
4. Section II, Items 7-9 of the Core Data Form: Thank you for providing the guidance during our call today. I have revised the Core Data Form to reflect the changes discussed during our conversation. Please find the attached document in the email correspondence.
5. Section II, Items 15 of the Core Data Form: The address provided is correct and accurate.
6. The Notice of Receipt seems to be complete and accurate with the exception of the "pending applicant response" markers. The first marker should be replaced with "2728 Hardwood Street, 500 Winstead Bldg, Dallas TX 75201", the second marker should be replaced with "Mr. Guymon Phillips at (214) 725-4200".

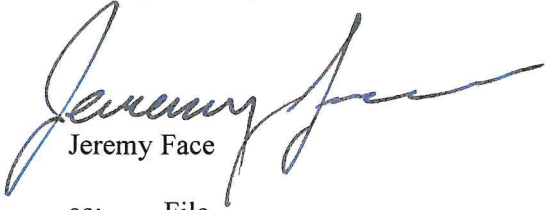
Hopefully, the above will adequately respond to your inquiries. However, should you have any questions or comments concerning this document and its contents, please do not hesitate to contact this office.

Thanking you in advance for your prompt attention to this matter, we remain,

Very truly yours,

**WASTELINE ENGINEERING, INC.**

TX Registered Engineering Firm #F-1669

A handwritten signature in blue ink, appearing to read "Jeremy Face", with a long horizontal flourish extending to the right.

Jeremy Face

cc: File  
Attachments

**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: Click to enter text.

Last Name, First Name: Phillips, Guymon

Title: District Engineer

Credential: Click to enter text.

Organization Name: Lake View Management & Development District Engineer

Mailing Address: 1914 Skillman Street

City, State, Zip Code: Dallas, TX, 75206

Phone No.: 214-725-4200

E-mail Address: guymon@teamphillipsinc.com

**D. Public Viewing Information**

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

Public building name: Henderson County Library

Location within the building: Front Desk

Physical Address of Building: 121 S. Prairieville

City: Athens

County: Henderson

Contact (Last Name, First Name): Reception

Phone No.: 903-677-7295 Ext.: Click to enter text.

**E. Bilingual Notice Requirements**

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

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

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

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

E. Owner of effluent disposal site:

Prefix:

Last Name, First Name:

Title:

Credential:

Organization Name: Lake View Management and Development District

Mailing Address: 2728 Harwood Street, 500 Winstead Bldg City, State, Zip Code: Dallas TX 75201

Phone No.: 214-745-5353

E-mail Address:

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:**

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

Prefix:

Last Name, First Name: N/A

Title:

Credential:

Organization Name:

Mailing Address:

City, State, Zip Code:

Phone No.:

E-mail Address:

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:**

## 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:

Not Applicable

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:

No Discharge

City nearest the outfall(s):

County in which the outfalls(s) is/are located:

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



TCEQ Use Only

# TCEQ Core Data Form

For detailed instructions regarding completion of 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.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
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 603151457		RN 110054038

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
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:	
Lake View Management and Development District			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
		451057059	
11. Type of Customer:		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> No	
12. Number of Employees		13. Independently Owned and Operated?	
		<input type="checkbox"/> Yes	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
2728 North Hardwood Street			
Suite 500, Winstead Bldg			
City	Dallas	State	TX
ZIP	75201	ZIP + 4	
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code	
( 214 ) 745-5353			
		20. Fax Number (if applicable)	
		( 214 ) 745-5390	

## SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency 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.)	
Long Cove WWTP	