Administrative Package Cover Page

This file contains the following documents:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

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

City of Palm Valley (CN602842999) operates the Palm Valley Wastewater Treatment Plant (RN102340445), a wastewater collection and treatment facility. The facility is located at approximately 1000 ft east of Stuart Place Rd. (FM 3196) and 5100 ft north of Interstate Highway 2, in the City of Palm Valley, Camron County, Texas 78552. The City of Palm Valley is applying to the Texas Commission on Environmental Equality (TCEQ) for a new of Permit No. WQ0010972003 (Previous Permit No. WQ0010972002) to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 280,000 gallons per day (gpd) via surface irrigation of 139.5 acres of golf course land.

Discharges from the facility are expected to contain Biochemical Oxygen Demand (5-day), to meet the daily average effluent parameter of 20 mg/l and Total Suspended Solids to meet, the daily average effluent parameter of 20 mg/l. Domestic Wastewater is treated by an extended aeration WWTP.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0010972003

APPLICATION. City of Palm Valley, 1313 North Stuart Place Road, Harlingen, Texas 78552, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0010972003 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 280,000 gallons per day via irrigation on 139.5 acres of land. The domestic wastewater treatment facility and disposal area are located approximately 5,300 feet northeast of the intersection of Interstate Highway 2 and Stuart Place Road, in the city of Palm Valley, in Cameron County, Texas 78552. Authorization to dispose was previously permitted by expired Permit No. WQ0010972002. TCEQ received this application on July 25, 2025. The permit application will be available for viewing and copying at City of Palm Valley City Hall, Front Desk, 1313 North Stuart Place Road, Harlingen, in Cameron 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=-97.7542,26.201&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Palm Valley at the address stated above or by calling Mr. Rosendo Flores, Wastewater Supervisor, at 956-423-8384.

Issuance Date: September 30, 2025

TPDES PERMIT NO. WQ0010972002 RENEWAL

FOR

CITY OF PALM VALLEY, TX WWTP

Owner:

City of Palm Valley

Application Submittal Date:
July 23, 2025

Prepared by:

FERRIS, FLINN & MEDINA, LLC
Texas Board of Professional Engineers
Firm Registration No.F-897
Texas Board of Professional Land Surveyors
Firm Registration No.100370-00

1405 N. Stuart Place Road
Harlingen, Texas 78552
(956)364-2236
(956)364-1023

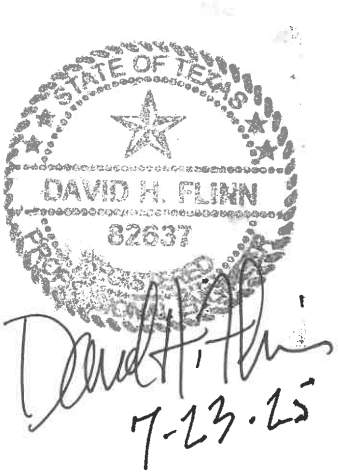


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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Palm Valley

PERMIT NUMBER (If new, leave blank): WQ0010972002

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 18842

Check/Money Order Amount: $1,215.00

Name Printed on Check: Ferris, Flinn & Medina, LLC

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. **For existing permits:**

Permit Number: WQ00 10972002

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

Expiration Date: September 1, 2025

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

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

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

City of Palm Valley

(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: 602842999

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

Prefix: Mr. Last Name, First Name: Galvan, Michael

Title: Mayor Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Flinn, David

Title: Vice President, City Consulting Engineer Credential: PE

Organization Name: Ferris, Flinn & Medina, LLC

Mailing Address: 1405 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 E-mail Address: d.flinn@ferrisandflinn.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: Click to enter text.

Check one or both: ☒ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: Click to enter text.

B. Prefix: Mr. Last Name, First Name: Flinn, David

Title: City Consulting Engineer Credential: PE

Organization Name: Ferris, Flinn & Medina, LLC

Mailing Address: 1405 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 E-mail Address: d.flinn@ferrisandflinn.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: Click to enter text.

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

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

Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: Click to enter text.

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Flinn, David

Title: City Consulting Engineer Credential: PE

Organization Name: Ferris, Flinn & Medina, LLC

Mailing Address: 1405 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 E-mail Address: d.flinn@ferrisandflinn.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: Click to enter text.

D. Public Viewing Information

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

Public building name: City of Palm Valley, City Hall

Location within the building: Front Desk

Physical Address of Building: 1313 N. Stuart Place Rd.

City: Harlingen County: Cameron

Contact (Last Name, First Name): Flores, Rosendo

Phone No.: 956-423-8384 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

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

   ☐ Yes ☒ No

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

☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

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

Attachment: Attachment B – Summary of Application in Plain Language

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: Click to enter text.

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** 102340445

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

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

City of Palm Valley WWTP

C. Owner of treatment facility: City of Palm Valley

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: Click to enter text.

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

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 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: Click to enter text.

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

Organization Name: Harlingen Country Club

Mailing Address: 5500 El Camino Real City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-412-4100 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: Attachment C – Effluent Agreement

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): City of Palm Valley

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the

names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: City of Palm Valley

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

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

From the WWTP through a 6" pipe and 8" pipe into a pond located within the Harlingen Country Club. Said pond is interconnected to four other ponds. The water into the ponds blends with the effluent and is used to irrigate the Golf Course.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Arroyo Colorado above Tidal Segment No. 2202

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.

n/a

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: WQ0010972002

Applicant: City of Palm Valley

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): Michael Galvan

Signatory title: Mayor

Signature: _____ Date: 7/23/2025

(Use blue ink)

Subscribed and Sworn to before me by the said Michael Galvan

on this 23rd day of July, 20 25.

My commission expires on the 26 day of March, 20 27.

Samantha Hernandez

Notary Public

[SEAL]

Samantha Hernandez
My Commission Expires
3/26/2027
Notary ID 11471999

Cameron

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Attachment E - SPIF

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0010972002

1. Check or Money Order Number: 18842
2. Check or Money Order Amount: $1,215
3. Date of Check or Money Order: 7/25/2025
4. Name on Check or Money Order: Ferris, Flinn & Medina, LLC
5. APPLICATION INFORMATION

   Name of Project or Site: City of Palm Valley WWTP

   Physical Address of Project or Site: 1313 N. Stuart Place Rd., Harlingen, TX 78552

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Summary of Application (in Plain Language) ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): .280

2-Hr Peak Flow (MGD): .633

Estimated construction start date: NA

Estimated waste disposal start date: NA

B. Interim II Phase

Design Flow (MGD): NA

2-Hr Peak Flow (MGD): NA

Estimated construction start date: NA

Estimated waste disposal start date: NA

C. Final Phase

Design Flow (MGD): .280

2-Hr Peak Flow (MGD): .633

Estimated construction start date: NA

Estimated waste disposal start date: NA

D. Current Operating Phase

Provide the startup date of the facility: August 2003

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Detailed Description Attached: See Attachment F – Detailed Description of Treatment Process

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)
See WWTP Design Features: Attachment G - Design Feature		

C. Process Flow Diagram

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

Attachment: See Attachment H – Process Flow Diagram

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

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

- Latitude: 26.2010
- Longitude: 97.7542

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

- Latitude: 26.2010
- Longitude: 97.7542

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

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.**

Detailed Description Attached: See Attachment F – Detailed Description of Treatment Process

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)
See WWTP Design Features: Attachment G – Design Feature		

C. Process Flow Diagram

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

Attachment: See Attachment H – Process Flow Diagram

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

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

- Latitude: 26.2010
- Longitude: 97.7542

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

- Latitude: 26.2010
- Longitude: 97.7542

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: See Attachment I – Site Plan
Provide the name **and** a description of the area served by the treatment facility.

The City of Palm Valley, which consists of residential properties only and the Harlingen Country Club.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
		Choose an item.	
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: March 1, 2002

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.

Click to enter text.

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.*

NA

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.

NA

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

Click to enter text.

4. ***Existing coverage in individual permit***

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

☐ Yes ☒ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	2.06	NA	1	Grab	6/5/25 10AM
Total Suspended Solids, mg/l	4	NA	1	Grab	6/5/25 10AM
Ammonia Nitrogen, mg/l	NA	NA	NA	NA	NA
Nitrate Nitrogen, mg/l	NA	NA	NA	NA	NA
Total Kjeldahl Nitrogen, mg/l	NA	NA	NA	NA	NA
Sulfate, mg/l	NA	NA	NA	NA	NA
Chloride, mg/l	NA	NA	NA	NA	NA
Total Phosphorus, mg/l	NA	NA	NA	NA	NA
pH, standard units	6.82	NA	1	Grab	6/5/25 10AM
Dissolved Oxygen*, mg/l	NA	NA	NA	NA	NA
Chlorine Residual, mg/l	2.5	NA	1	Grab	6/5/25 10AM
E.coli (CFU/100ml) freshwater	NA	NA	NA	NA	NA
Entercocci (CFU/100ml) saltwater	NA	NA	NA	NA	NA
Total Dissolved Solids, mg/l	NA	NA	NA	NA	NA
Electrical Conductivity, µmohs/cm, †	NA	NA	NA	NA	NA
Oil & Grease, mg/l	NA	NA	NA	NA	NA
Alkalinity ($CaCO_3$)*, mg/l	NA	NA	NA	NA	NA

*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 ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Rosendo Flores

Facility Operator's License Classification and Level: "C" Wastewater Treatment Operator

Facility Operator's License Number: WW0011004

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

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

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

D. Disposal site

Disposal site name: Reavis Farms

TCEQ permit or registration number: 4861

County where disposal site is located: Hidalgo

E. Transportation method

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

Name of the hauler: Denali Water Solutions

Hauler registration number: 24795

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

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

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☒ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Rosendo Flores

Title: Wastewater Supervisor

Signature: Rosendo Flores

Date: 7-23-25

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☒ Lake or Pond

Surface area, in acres: 8.9 acres (5 ponds)

Average depth of the entire water body, in feet: +/- 3.0

Average depth of water body within a 500-foot radius of discharge point, in feet: 5

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: WQ0010972002

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Golf Course	139	112,300	Yes

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	1.27	6.39	Irregular	Compacted Clay
2	2.22	11.14	Irregular	Compacted Clay
3	1.92	9.6	Irregular	Compacted Clay
4	1.07	5.36	Irregular	Compacted Clay
5	2.42	12.09	Irregular	Compacted Clay

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

Attachment: Click to enter text.

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

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

☐ Yes ☒ No

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

Click to enter text.

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

FEMA Firm Community Panel No. 48010-0125B

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

The Golf Course is surrounded by streets with curb & gutters. Surface runoff from areas around the Golf Course are captured by the streets and drain into the 5 golf course ponds.

Section 5. Annual Cropping Plan (Instructions Page 67)

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

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

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

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

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

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

Table 3.0(3) – Water Well Data

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

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

Attachment: Attachment H

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: Click to enter text.

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

A. Soil map

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

Attachment: Attachment M – Soil Map

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: Attachment N – Soil Analysis

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
RDX	0-13	0.63-2.0	0.15-0.20	
RM	0-14	0.20-0.63	0.11-0.18	
HU	0-12	0.63-2.0	0.09-0.17	

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
July 2023	0.084	2.0	3.55	7.08	1.5	139
August 2023	0.102	2.0	3.40	7.03	1.3	139
September 2023	0.102	2.0	4.05	7.05	1.6	139
October 2023	0.083	2.02	3.30	6.98	1.4	139
November 2023	0.087	2.04	3.56	7.07	1.3	139
December 2023	0.97	2.0	4.22	6.94	2.1	139
January 2024	0.089	2.87	5.89	6.71	2.2	139
February 2024	0.079	3.22	2.65	6.70	2.1	139
March 2024	0.095	2.57	6.3	6.75	2.1	139
April 2024	0.086	3.25	5.65	6.79	1.4	139
May 2024	0.099	2.99	3.74	6.93	1.2	139
June 2024	0.145	2.30	2.07	6.9	1.4	139
July 2024	0.112	2.26	6.63	7.01	1.3	139
August 2024	0.104	2.28	2.95	7.02	1.3	139
September 2024	01.26	2.09	5.65	6.81	1.6	139
October 2024	0.123	2.17	3.94	6.73	1.7	139
November 2024	0.104	2.49	4.55	6.81	1.2	139
December 2024	0.113	2.03	6.67	6.84	1.4	139
January 2025	0.108	2.22	4.0	7.04	1.8	139
February 2025	0.123	2.20	5.69	6.58	1.3	139
March 2025	0.198	2.10	6.52	6.61	1.8	139
April 2025	0.190	2.08	3.37	7.48	1.9	139
May 2025	0.106	2.0	5.06	7.23	2.2	139
June 2025	0.102	2.81	4.28	6.97	1.7	139

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

NA

ATTACHMENT "A"
CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

1. SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 602842999		**RN 102340445**

2. SECTION II: Customer Information

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

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

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

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

City of Palm Valley

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

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

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

13. Independently Owned and Operated?
☐ Yes ☒ No

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

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

15. Mailing Address: 1313 N. Stuart Place Rd.

City	Palm Valley	**State**	TX	**ZIP**	78552	**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)*
(956) 423-4040		(956) 423-6324

3. SECTION III: Regulated Entity Information

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

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

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

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

City of Palm Valley Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City	Palm Valley	**State**	TX	**ZIP**	78552	**ZIP + 4**	
24. County	Cameron							

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

25. Description to Physical Location:	Approximately 1000 ft east of Stuart Place Rd (FM 3196) and 5100 ft north of US Expressway 83.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Palm Valley			TX	78552	

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

27. Latitude (N) In Decimal:	26.2010		**28. Longitude (W) In Decimal:**	97.7542	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
26	12	3.6	97	45	15.1194

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)

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

34. Mailing Address:	**1313 N. Stuart Place Rd.**							
	City	**Palm Valley**	**State**	**TX**	**ZIP**	**78552**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(956) 423-4040		**(956) 423-6324**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste

☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010972002			

SECTION IV: Preparer Information

40. Name:	David H. Flinn, PE, VP	**41. Title:**	City Consulting Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(956) 364-2236		(956) 364-1022	d.flinn@ferrisandflinn.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:	Ferris, Flinn & Medina, LLC	**Job Title:**	City Consulting Engineer
Name *(In Print):*	David H. Flinn, PE, VP	**Phone:**	(956) 364- **2236**
Signature:	David H. Flinn	**Date:**	7/23/25

ATTACHMENT "B"
SUMMARY OF APPLICATION IN PLAIN LANGUAGE

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

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

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

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

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

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

City of Palm Valley (CN602842999) operates the Palm Valley Wastewater Treatment Plant (RN102340445), a wastewater collection and treatment facility. The facility is located at approximately 1000 ft east of Stuart Place Rd. (FM 3196) and 5100 ft north of US Expwy 83, in the City of Palm Valley, Camron County, Texas 78552. The City of Palm Valley is applying to the Texas Commission on Environmental Equality (TCEQ) for a renewal of Permit No. WQ0010972002 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 280,000 gallons per day (gpd) via surface irrigation of 139.5 acres of golf course land.

Discharges from the facility are expected to contain Biochemical Oxygen Demand (5-day), to meet the daily average effluent parameter of 20 mg/l and Total Suspended Solids to meet, the daily average effluent parameter of 20 mg/l. Domestic Wastewater is treated by an extended aeration WWTP.

ATTACHMENT "C"
EFFLUENT AGREEMENT

AGREEMENT

This Agreement between Harlingen Country Club, a Texas corporation, of the City of Palm Valley, Texas, herein called "Country Club" and The City of Palm Valley of Cameron County, Texas, herein called "Palm Valley" made this 16th day of June, 2015, witnesseth:

That whereas Country Club is the owner and operator of the Harlingen Country Club Golf Course consisting of approximately One Hundred and Fifty acres of land within Palm Valley more particularly described on the attached Exhibit A; and

WHEREAS, Palm Valley owns and operates a sanitary sewer system within and adjoining the Country Club property which system continuously produces effluent which, since the construction of its sewer plant, has been discharging into a pond or lake on the Golf Course and adjoining the sewer plant, which effluent has been used by the Country Club for irrigation purposes and care of the Golf Course and

WHEREAS, Palm Valley and Country Club desire to have the agreement between the parties providing for the continued use of said effluent for irrigation purposes reduced to writing;

NOW THEREFORE, it is hereby agreed that Palm Valley may continue to discharge all effluent produced by the operation of its sewer plant into ponds owned by Country Club and that Country Club will use such effluent for the purpose of irrigating its Golf Course, and

That this agreement will continue for one (1) year from date of Agreement and shall automatically renew for successive one(1) year term at the expiration of each term unless notice is given in writing at least one (1) year prior to the expiration of the applicable one (1) year term. Notwithstanding the foregoing, Palm Valley and Harlingen County Club shall mutually have the right to terminate this agreement, at anytime, by giving notice in writing and stating the date of termination, which shall not be less than one (1) year after the date of service of said notice.

EXECUTED this 16th day of June, 2015.

City of Palm Valley

By: _____

Its: Mayor

Harlingen Country Club

By: _____

Its: General Manager/COO

TRACT 1

Being 86.7873 acres, more or less, known as Farm Block "B" and more particularly described as follows:

Commencing at the northwest corner of Survey No. 299 and the northeast corner of Survey No. 140, said point lying in the right of way of Wilson Road.

Thence, S 0° 06' 58" E 661.73 feet along the east line of Survey No. 140 and the west line of Survey No. 299 to the point of beginning.

Thence, S 44° 24' 54" E 714.71 feet to a point for corner.

Thence, S 20° 49' 31" E 93.06 feet to a point for corner.

Thence, S 0° 27' 05" W 495.00 feet to a point for corner.

Thence, S 5° 06' 48" E 422.00 feet to a point for corner.

EXHIBIT A

900 262

Thence, S 32° 28' 18" E 182.53 feet to a point for corner,

Thence, S 79° 47' 54" E 446.05 feet to a point for corner,

Thence, S 42° 20' 12" E 121.75 feet to a point for corner,

Thence, S 9° 17' 42" E 300.00 feet to a point for corner,

Thence, S 37° 31' 26" E 197.44 feet to a point for corner,

Thence, S 36° 10' 54" W 30.00 feet to a point for corner,

Thence, S 68° 56' 12" W 73.55 feet to a point for corner,

Thence, S 9° 17' 42" E 240.00 feet to a point for corner,

Thence, S 68° 21' 18" E 77.41 feet to a point for corner,

Thence, S 21° 38' 42" W 610.28 feet to a point for corner,

Thence, S 62° 09' 42" W 100.65 feet to a point for corner,

Thence, West 154.00 feet to a point for corner,

Thence, S 1° 52' 42" W 135.74 feet to a point for corner,

Thence, S 89° 49' 40" W 20.22 feet to a point for corner,

Thence, N 87° 51' 00" W 362.47 feet to a point for corner,

Thence, West 228.00 feet to a point for a corner,

Thence, North 147.99 feet to a point for corner,

Thence, N 45° 00' 00" E 208.71 feet to a point for corner,

Thence, N 45° 00' 00" W 208.71 feet to a point for corner,

Thence, S 45° 00' 00" W 208.71 feet to a point for corner,

Thence, S 45° 00' 00" E 180.42 feet to a point for corner,

Thence, South 168.00 feet to a point for corner,

Thence, West 485.86 feet to a point for corner,

Thence, North 55.43 feet to a point for corner,

Thence, N 40° 01' 48" W 352.95 feet to a point for corner,

Thence, S 82° 28' 58" W 91.51 feet to a point for corner,

Thence, N 11° 07' 25" W 196.26 feet to a point for corner,

Thence, N 14° 43' 48" W 297.13 feet to a point for corner,

Thence, N 67° 19' 07" E 514.77 feet to a point for corner,

Thence, North 510.00 feet to a point for corner,

Thence, West 175.00 feet to a point for corner,

Thence, North 413.00 feet to a point for corner,

Thence, N 18° 06' 24" E 495.48 feet to a point for corner,

Thence, East 160.00 feet to a point for corner,

Thence, N 14° 41' 18" W 425.92 feet to a point for corner,

Thence, N 31° 12' 06" W 326.62 feet to a point for corner,

Thence, N 54° 46' 47" W 100.00 feet to a point for corner,

Thence, N 23° 51' 16" W 73.27 feet to a point for corner,

Thence, N 2° 38' 30" E 185.14 feet to a point for corner,

Thence, N 42° 46' 48" E 91.28 feet to a point for corner,

Thence, S 89° 02' 12" E 238.03 feet to a point for corner,

Thence, S 44° 24' 54" E 152.89 feet to a point for corner, said point being the point of beginning.

Containing 86.7873 acres, more or less,

TRACT 2

Being 52.7397 acres, more or less, known as Farm Block "A" and more particularly described as follows:

Commencing at the northwest corner of Survey No. 299 and the northeast corner of Survey No. 140, both of which lie in the Wilson Road right of way,

Thence, S 0° 06' 58" E 32.56 feet along the east line of Survey No. 140 and the west line of Survey No. 299 to the south right-of-way line of Wilson Road,

Thence, N 89° 47' 45" E 872.66 feet along the south right-of-way line of Wilson Road to a point for corner,

Thence, S 0° 04' 45" E 2007.53 feet to a point for corner,

Thence, N 89° 50' 30" E 871.70 feet to a point for corner, said point lying in the right of way of Dilworth Road.

900 264

Thence, S 0° 10' 20" E 2038.85 feet to a point for corner,

Thence, S 89° 49' 40" W 867.81 feet to a point for corner, said point being the point of beginning.

Thence, S 3° 44' 52" E 160.00 feet to a point for corner,

Thence, N 89° 07' 00" E 50.00 feet to a point for corner,

Thence, S 20° 48' 00" W 120.22 feet to a point for corner,

Thence, S 11° 32' 18" E 210.00 feet to a point for corner,

Thence, S 63° 07' 50" E 90.00 feet to a point for corner,

Thence, S 37° 06' 12" W 93.95 feet to a point for corner,

Thence, S 11° 32' 18" E 261.92 feet to a point for corner,

Thence, S 0° 38' 54" W 530.03 feet to a point for corner,

Thence, S 8° 01' 34" E 20.34 feet to a point for corner,

Thence, West 233.84 feet to a point for corner,

Thence, North 20.14 feet to a point for corner,

Thence, N 43° 41' 06" W 215.72 feet to a point for corner,

Thence, S 58° 00' 04" W 496.39 feet to a point for corner,

Thence, S 49° 48' 54" W 193.72 feet to a point for corner,

Thence, S 4° 57' 12" E 150.56 feet to a point for corner,

Thence, S 45° 47' 36" E 342.98 feet to a point for corner,

Thence, S 81° 02' 48" E 147.80 feet to a point for corner,

Thence, N 81° 01' 42" E 211.59 feet to a point for corner,

Thence, N 29° 05' 30" E 425.72 feet to a point for corner,

Thence, N 4° 23' 54" E 169.53 feet to a point for corner,

Thence, East 125.00 feet to a point for corner,

Thence, South 135.00 feet to a point for corner,

Thence, N 89° 07' 00" E 85.00 feet to a point for corner,

Thence, S 47° 39' 00" W 115.00 feet to a point for corner,

Thence, South 212.46 feet to a point for corner.

Thence, S 45° 00' 00" E 91.92 feet to a point for corner.

Thence, S 45° 00' 00" W 91.92 feet to a point for corner.

Thence, South 69.38 feet to a point for a corner,

Thence, S 23° 54' 06" W 35.00 feet to a point for corner.

Thence, S 21° 30' 48" E 192.34 feet to a point for corner.

Thence, S 89° 49' 40" W 570.00 feet to a point for corner.

Thence, S 85° 11' 24" W 278.32 feet to a point for corner.

Thence, N 48° 35' 06" W 50.00 feet to a point for corner.

Thence, S 89° 49' 40" W 207.44 feet to a point for corner.

Thence, N 6° 35' 00" W 205.76 feet to a point for corner.

Thence, N 48° 35' 06" W 230.11 feet to a point for corner.

Thence, S 48° 04' 00" W 158.62 feet to a point for corner.

Thence, N 33° 41' 24" W 86.53 feet to a point for corner.

Thence, N 14° 36' 30" E 194.28 feet to a point for corner.

Thence, N 5° 15' 30" E 403.70 feet to a point for corner.

Thence, N 11° 42' 48" W 556.58 feet to a point for corner.

Thence, N 3° 21' 18" W 273.47 feet to a point for corner.

Thence, N 3° 33' 18" E 499.96 feet to a point for corner.

Thence, N 86° 26' 42" W 140.00 feet to a point for corner.

Thence, N 3° 33' 18" E 51.41 feet to a point for corner.

Thence, East 527.15 feet to a point for corner.

Thence, S 7° 51' 12" E 156.46 feet to a point for corner.

Thence, S 22° 57' 24" E 310.00 feet to a point for corner.

Thence, S 10° 11' 20" E 220.00 feet to a point for corner.

Thence, N 87° 48' 12" E 92.96 feet to a point for corner.

56

Thence, S 18° 03' 41" E 27.34 feet to a point for corner.

Thence, S 56° 04' 25" W 99.04 feet to a point for corner.

Thence, S 10° 11' 20" E 105.00 feet to a point of curve to the left.

Thence, along said curve to the left, having a radius of 212.00 feet and a central angle of 95° 53' 52", 354.84 feet to a point of tangency.

Thence, N 4° 16' 35" E 366.90 feet to a point for corner.

Thence, N 37° 01' 32" W 216.17 feet to a point for a corner.

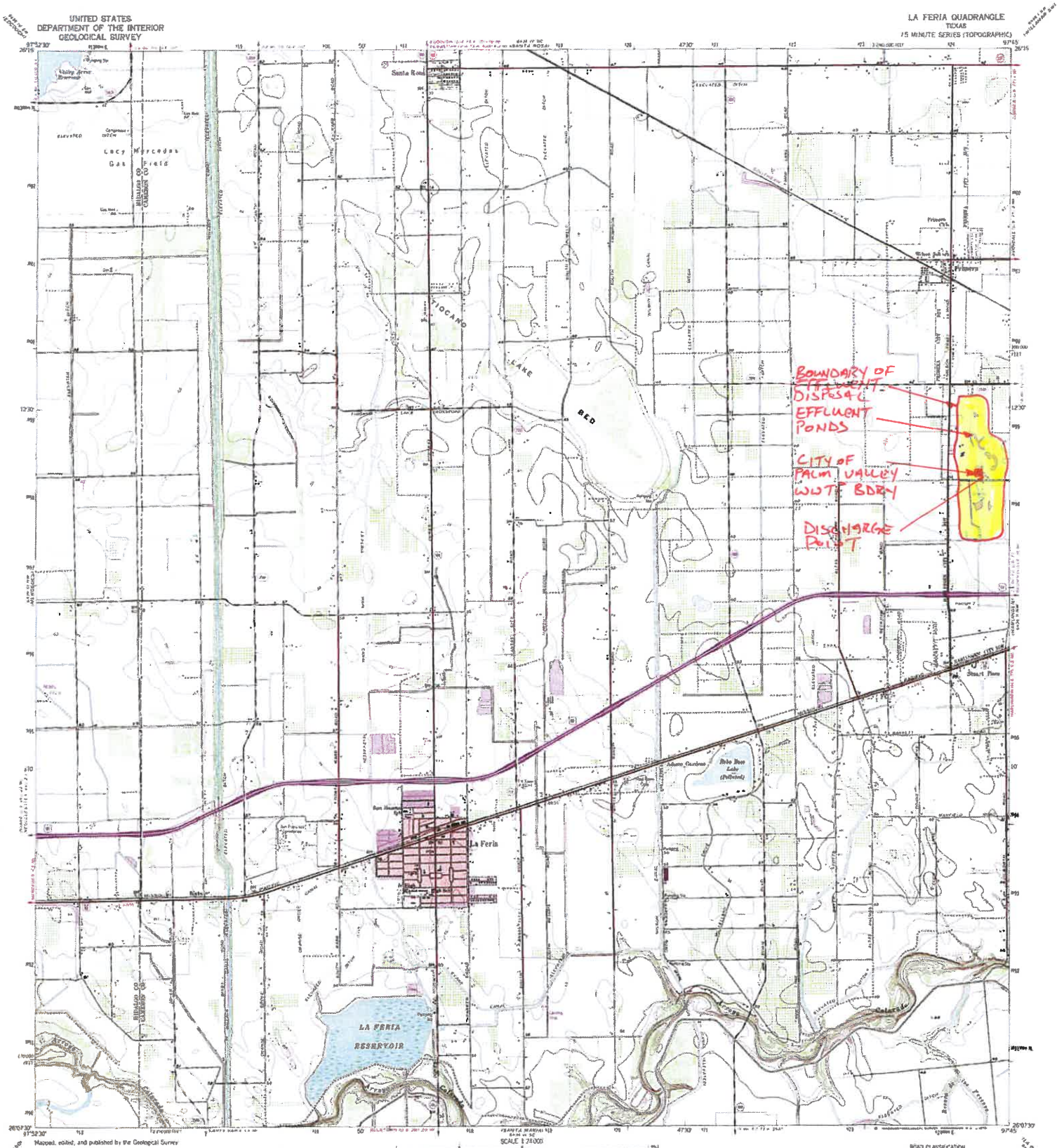
Thence, East 141.66 feet to a point for corner.

Thence, N 0° 44' 54" E 130.00 feet to a point for corner.

Thence, S 87° 51' 08" E 362.61 feet to the point of beginning.

Containing 52.7397 acres, more or less.

ATTACHMENT "D"
USGS TOPOGRAPHIC MAP


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
LA FERIA QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)
Santa Rosa
Lucy Mercedes Gas Field
MIOCENE
LAKE
BED
BOUNDARY OF EFFLUENT DISPOSAL EFFLUENT PONDS
CITY OF PALM VALLEY WWTP BDRY
DISCHARGE POINT
La Feria
LA FERIA RESERVOIR
Arroyo Colorado
Rabb Tract Lake (Pothole)
Stuart Place
SCALE 1:24000
CONTOUR INTERVAL 5 FEET
ROAD CLASSIFICATION
Heavy duty
Light-duty
Medium duty
Unimproved dirt
U.S. Route
State Route
LA FERIA, TEX.
N2607.5—W9745/7.5
1956
PHOTOREVISED 1970
AMS 6476 III NE—SERIES V882
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Culture and drainage in part compiled from aerial photographs taken 1953. Topography from 7.5 minute La Feria quadrangle surveyed 1929, revised by planetable surveys 1956
Projection: 1927 North American datum
10,000-foot grid based on Texas coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 14, shown in blue
Red tint indicates areas in which only landmark buildings are shown
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ATTACHMENT "E"
SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: X Renewal _____ Major Amendment ____ Minor Amendment _____ New

County: Cameron Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: City of Palm Valley

   Permit No. WQ00 10972002 EPA ID No. TX 10972-002

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   Approximately 1000 ft east of Stuart Place Rd (FM3196) and 5100 ft north of US Expwy 83, Harlingen, Cameron County

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: David Flinn

Credential (P.E, P.G., Ph.D., etc.): PE

Title: Vice President

Mailing Address: 1405 N. Stuart Place Rd.

City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 Ext.: Fax No.: 956-364-1022

E-mail Address: d.flinn@ferrisandflinn.com

2. List the county in which the facility is located: Cameron
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

From the treatment facility through a 6" and 8" pipe into a pond located within the Harlingen County Club. Said pond is interconnected with four other ponds, the water in the ponds is used to irrigate the golf course.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

NA

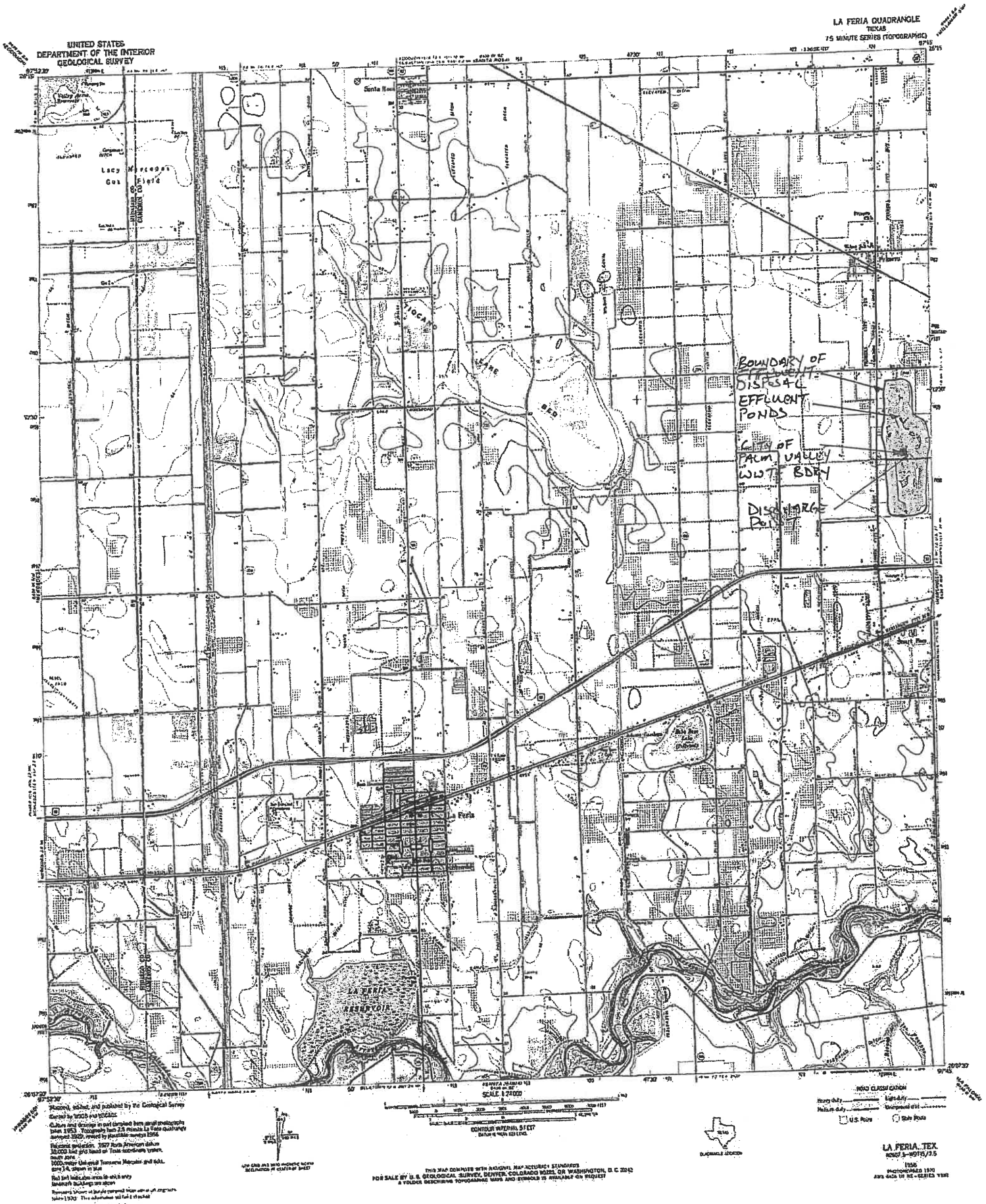
2. Describe existing disturbances, vegetation, and land use:

Golf Course and Residential Development

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

4. Provide a brief history of the property, and name of the architect/builder, if known.


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
LA FERIA QUADRANGLE
TEXAS
7.5 MINUTE SERIES (TOPOGRAPHIC)
Santa Rosa
Lacy Manresque Gas Field
LOCO
BED
BOUNDARY OF EFFLUENT DISPOSAL EFFLUENT PONDS
CITY OF PALM VALLEY WWTP BDRY
DISCHARGE POINT
La Feria
LA FERIA RESERVOIR
SCALE 1:24000
CONTOUR INTERVAL 5 FEET
ROAD CLASSIFICATION
U.S. Route
State Route
LA FERIA, TEX.
1956
PHOTOREVISED 1970

ATTACHMENT "F"
DETAILED DESCRIPTION OF TREATMENT PROCESS

Detailed Description of Treatment Process
City of Palm Valley WWTP

The existing sewage treatment facilities of the City of Palm Valley consist of three (3) packaged type extended aeration activated sludge sewage treatment plants which are run in parallel, each receiving its flow from a proportional weir box which correctly divides the sewage influent to each plant.

All three sewage treatment plants were furnished by Process Engineered Equipment Company (PEECO) of Corpus Christi, Texas. The plants were designed to treat raw wastewater with a strength of 200 mg/l BOD and 200 mg/l TSS.

One of the plants has a treatment capacity of 120,000 GPD. The other two plants have a treatment capacity of 80,000 GPD each. Therefore, the total combined capacity is 280,000 GPD.

In all three plants raw sewage is pumped to an aeration basin where the raw waste is mixed with return sludge and ample air for approximately 24 hours. This mixture flows to a settling tank or clarifier where sludge settles to the bottom. The clear effluent flows from the settling tank to a chlorine contact tank, and the settled sludge flows back to the aeration basin. After chlorination in the chlorine contact tank, the final effluent is discharged into five connected golf course lakes. Excess activated sludge is discharged into an aerated sludge holding tank, or digester, where it is stored for final disposal at the City's land application site located in Hidalgo County. Digester supernatant and overflow are returned to the aeration basin. All tanks in these plants are constructed of concrete.

The five connected golf course lakes which receive the treated effluent from these three plants have a capacity of 14,524,290 gallons or 44.58 Ac.-Ft., and a surface area of 8.9 acres. The lakes provide a 51.9 day detention at future maximum flows of 280,000 GPD.

Based on evaporation of 60" per year, the daily average evaporation is 39,724 GPD.

The lakes irrigate a golf course of approximately 145 acres, of which 75.32 acres are fairways, tees, and greens.

ATTACHMENT "G"
DESIGN FEATURES

WWTP DESIGN FEATURES

The City of Palm Valley owns and operates three packaged type extended aeration sludge sewage treatment plants. Plant No. 1 & 2 are each 80,000 GPD treatment capacity plants. Plant No. 3 is a 120,000 GPD treatment capacity plant. All three plants consist of an aerator unit, an aerated sludge holding (ASH) unit, a clarifier unit, and a chlorine contact chamber (CCC). The accompanying plan & profile drawings provide detailed information of each corresponding plant. The dimensions of each of the treatment units are as follows:

Plant No. 1: 80,000 GPD Treatment Capacity

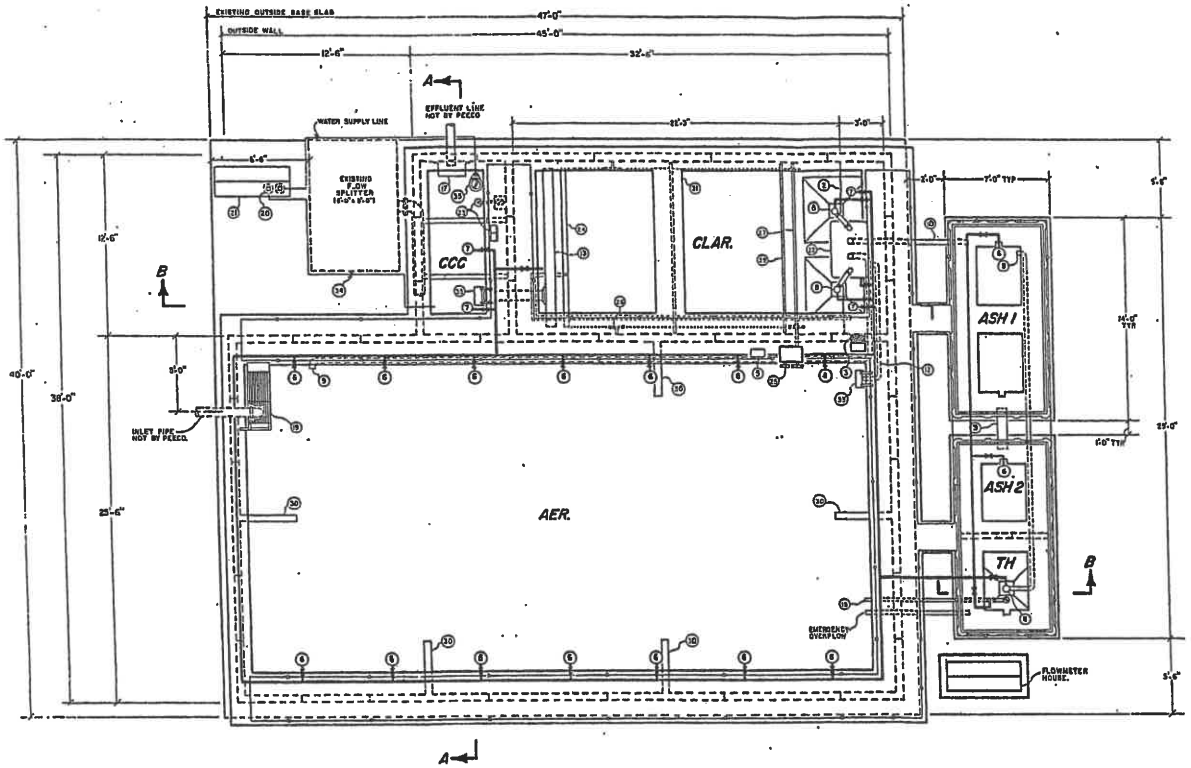
TREATMENT UNIT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
Aeration	44	24.5	10.83
ASH Unit 1	13	6	10.83
ASH Unit 2	13	6	10.83
Clarifier	12.5	25.25	10.83
CCC	12.5	5.75	10.83

Plant No. 2: 80,000 GPD Treatment Capacity

TREATMENT UNIT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
Aeration Unit 1	40.5	15.5	10.83
Aeration Unit 2	31.5	15.5	10.83
ASH	15.5	15.5	10.83
Clarifier	31.5	15.5	10.83
CCC	6.5	15.5	10.83

Plant No. 3: 120,000 GPD Treatment Capacity

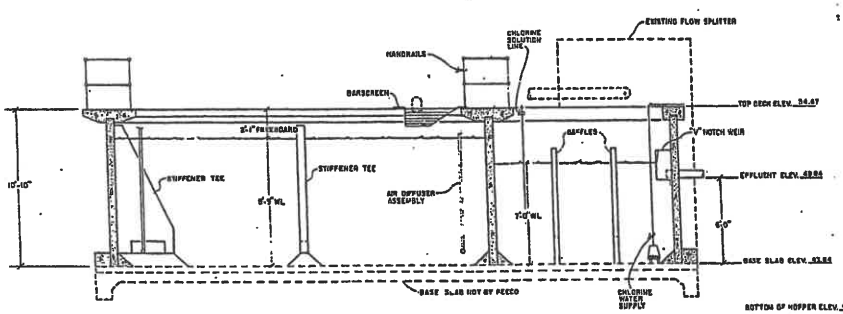
TREATMENT UNIT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
Aeration	55.5	28	10.83
ASH	12	28	10.83
Clarifier	31.5	15.5	10.83
CCC	7.5	15.5	10.83



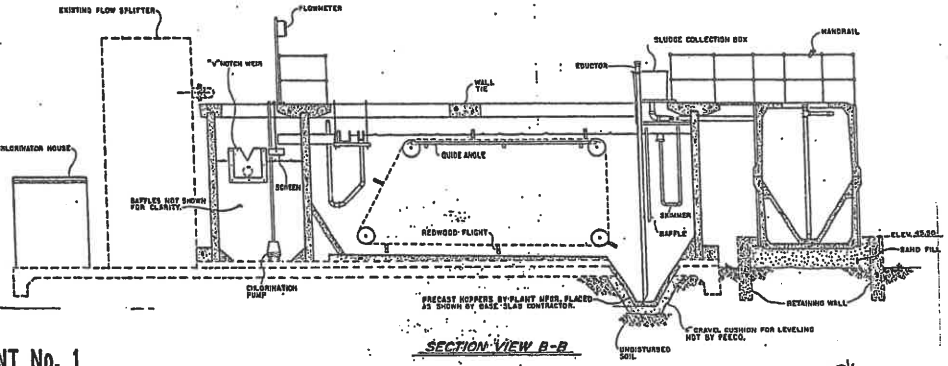
PLAN VIEW

SYMBOLS	BASIN	WATER LEVEL	GALLONS	
AER-	AERATION	8-9"	70,555	
ASH-	AERATED SLUDGE HOLDING	8-9"	10,000	
CLAR-	CLARIFIER	8-9"	15,831	267 SQ. FT.
CCC-	CHLORINE CONTACT CHAMBER	7'-0"	3,612	
TH-	THICKENER			

1-	PARTITION, WATER TIGHT
2-	BAFFLE
3-	FLOW PORT/PIPE
4-	BLOWER ASSEMBLY
5-	CONTROL PANEL
6-	AIR DIFFUSER
7-	AIR BUBBLER
8-	SLUDGE EDUCTOR ASSEMBLY
9-	SLUDGE RETURN LINE
10-	SLUDGE DRAW OFF LINE
11-	SKIMMER
12-	SKIMMER DISCHARGE PIPING
13-	WEIR BOX/TROUGH ASSEMBLY
14-	SCUM BAFFLE
15-	WEIR DISCHARGE PIPING
16-	MIXING TUBE
17-	"V" NOTCH WEIR
18-	SUPERNATANT DECANT
19-	BARSCREEN
20-	CHLORINATOR
21-	CHLORINATOR HOUSE
22-	SLUDGE COLLECTION BOX
23-	FLOWMETER
24-	SKIMMER TROUGH
25-	SCRAPER DRIVE ASSEMBLY
26-	SCRAPER SPROCKET
27-	SCRAPER DRIVE SHAFT
28-	SCRAPER DRIVE CHAIN
29-	SCRAPER DRIVE FLIGHT
30-	STIFFENER TEE
31-	WALL TIE
32-	STAIR
33-	SCREEN
34-	CHLORINE SOLUTION LINE
35-	CHLORINATION PUMP
	AIR CONTROL VALVE
	WEIGHTED, PRESSURE RELIEF VALVE
	CHECK VALVE
	PRESSURE GAGE
	GATE VALVE



SECTION VIEW A-A



SECTION VIEW B-B

PLANT No. 1

APPROVED
ASSOC., CORPUS CHRISTI, ENGINEERS CORPUS CHRISTI, TEXAS 78410
BY
DATE OCT 23 1989

PROCESS ENGINEERED EQUIPMENT CO.
438 McBRIDE LANE
P.O. BOX 9549
CORPUS CHRISTI, TEXAS 78469
512-289-8891

PEECO

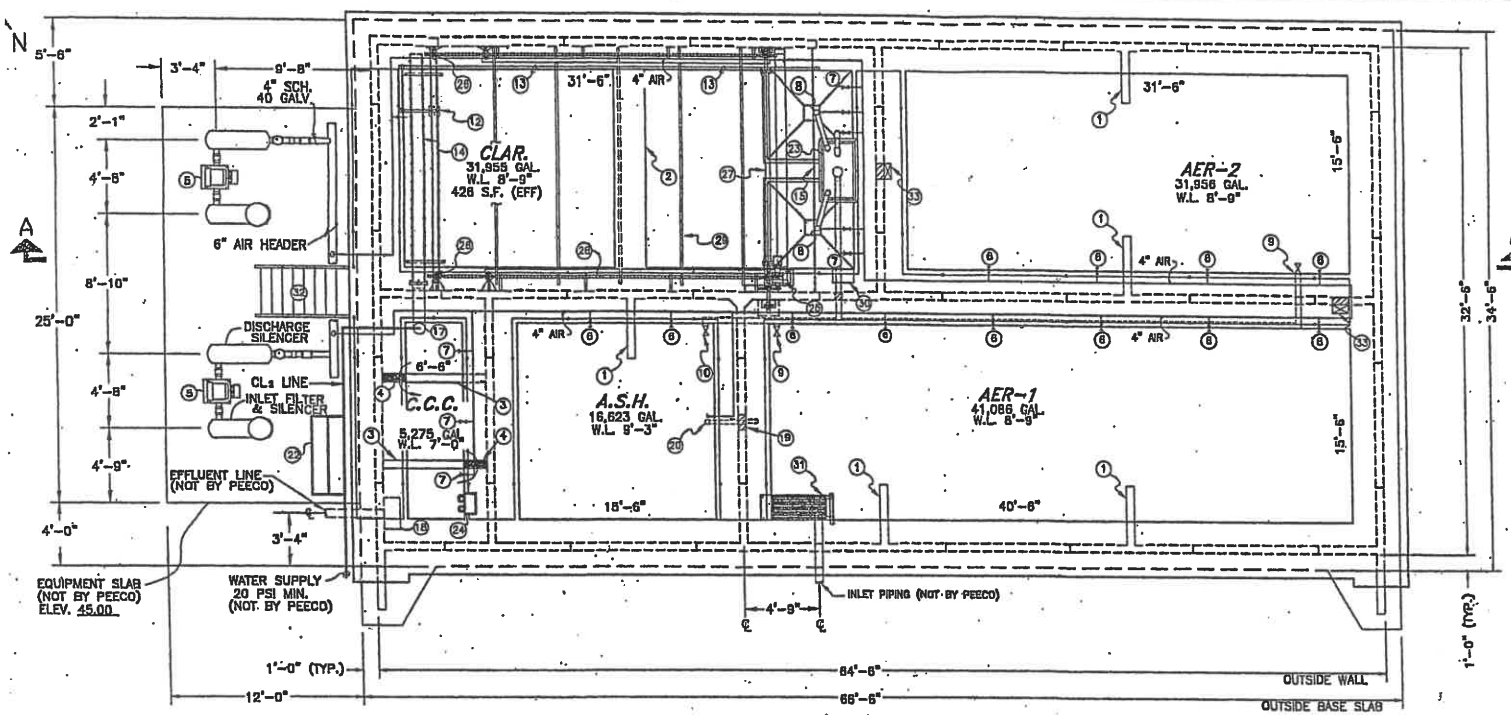
NO	DATE	REVISION
R-1	2-28-89	ADDED BASINS, STIFFENER TEE, CHLORINATOR HOUSE

PEECO DWG NO: 842-351-01
SCALE: 1/4"=1'-0"
DATE: 2-20-89
DWN BY: DC
APPROVED:

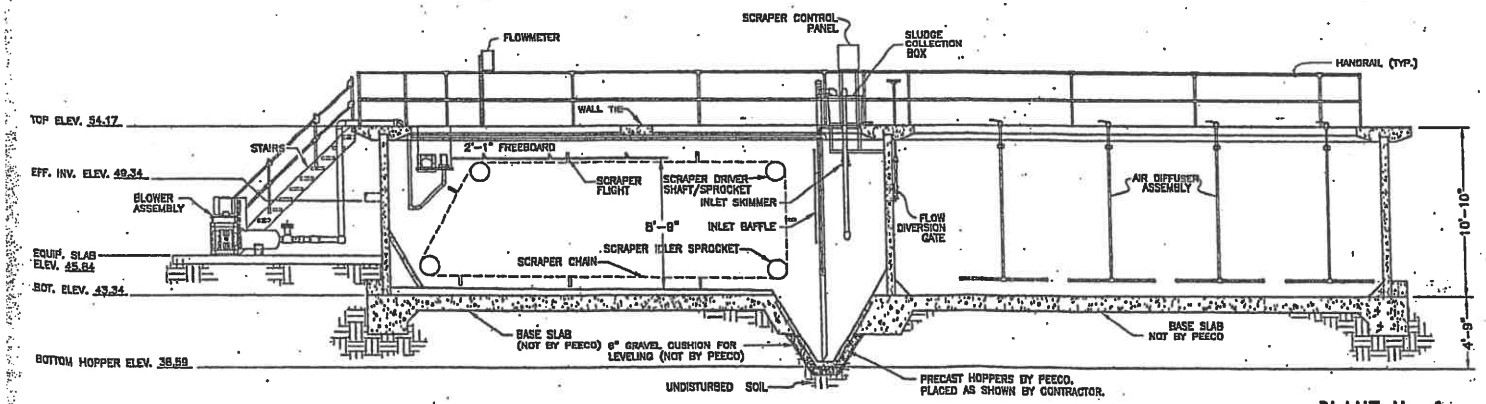
PROPOSED 60,000 GPD, 30 x 20/20 EFFLUENT, EXTENDED AERATION WASTEWATER TREATMENT PLANT.

PALM VALLEY WWTP.

SHEET



PLAN VIEW



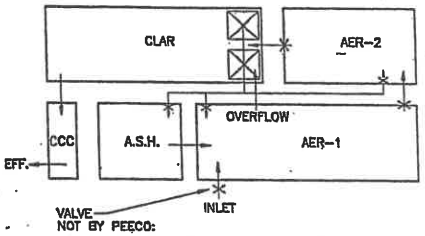
SECTION VIEW A-A

PLANT No. 2

SYMBOLS	BASIN	WATER LEVELS	GAL'S.
AER-	AERATION	8'-9"	73,042
ASH-	AERATED SLUDGE HOLDING	9'-3"	16,623
CLAR-	CLARIFIE	8'-9"	31,995
CCC-	CHLORINE CONTACT CHAMBER	7'-0"	5,275

1- WALL SUPPORT TEE (CONCRETE)
2- WALL SUPPORT/TIE (CONCRETE)
3- PARTITION/BAFFLE (CONCRETE)
4- FLOWPORT/PIPE
5- BLOWER ASSEMBLY
6- AIR DIFFUSER
7- AIR BUBBLER
8- SLUDGE AIRLIFT ASSEMBLY
9- SLUDGE RETURN LINE (RAS)
10- SLUDGE WASTE LINE (WAS)
11- SKIMMER TROUGH, INLET
12- SKIMMER TROUGH, EFFLUENT
13- SKIMMER DISCHARGE PIPING
14- WEIR TROUGH/SKIMMER ASSEMBLY
15- SCUM BAFFLE/FRP.
16- WEIR DISCHARGE PIPING
17- MIXING TUBE
18- V NOTCH WEIR
19- SUPERNATANT RETURN OVERFLOW
20- SUPERNATANT RETURN AIRLIFT
21- CHLORINATOR
22- CHLORINATOR HOUSE
23- SLUDGE COLLECTION BOX
24- FLOWMETER
25- SCRAPER DRIVE ASSEMBLY
26- SCRAPER SPROCKET
27- SCRAPER DRIVE SHAFT
28- SCRAPER CHAIN
29- SCRAPER FLIGHT
30- CONTROL PANEL (ELECTRICAL)
31- BARSCREEN
32- STAIRWAY
33- FLOW DIVERSION GATE

—A— AIR LINE
AIR CONTROL VALVE
WEIGHTED, PRESSURE RELIEF VALVE
CHECK VALVE
GATE VALVE



FLOW DIAGRAM

PROCESS ENGINEERED EQUIPMENT CO.
438 MCBRIDE LANE
P.O. BOX 9549
CORPUS CHRISTI, TEXAS. 78469
361-289-8891

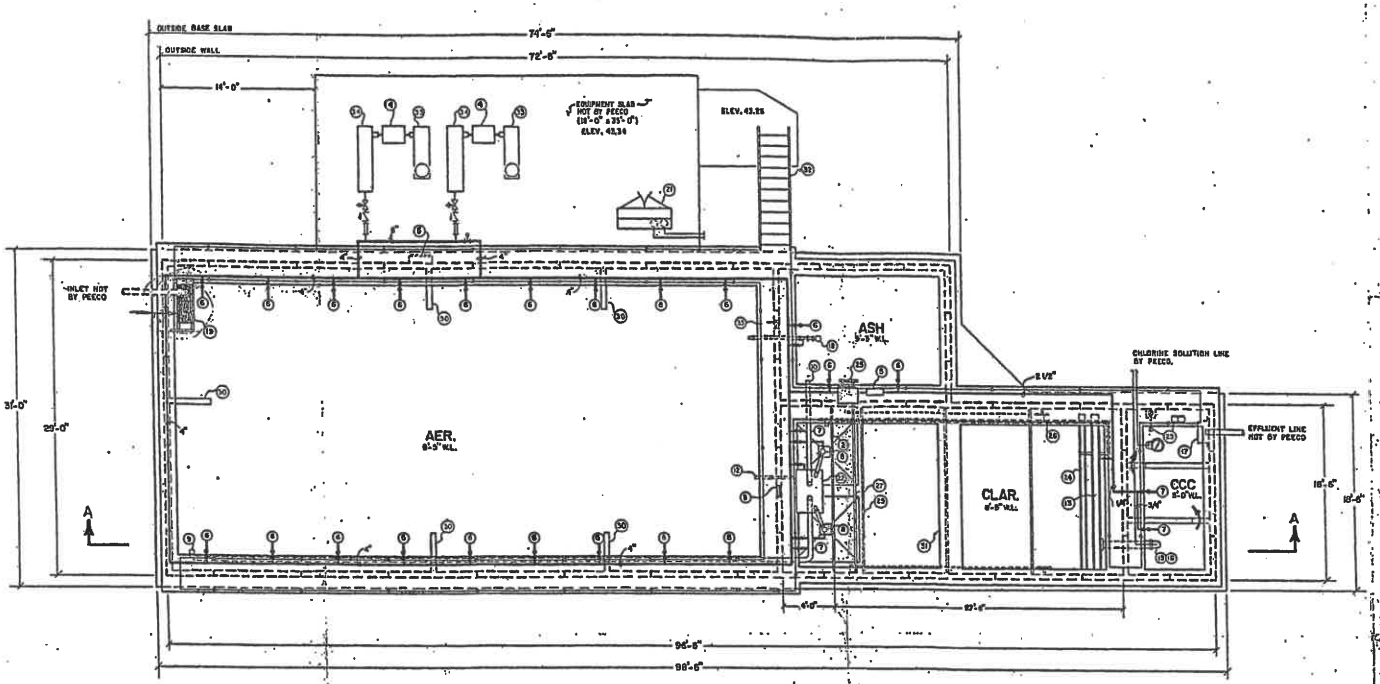
PEECO

NO	DATE	REVISION

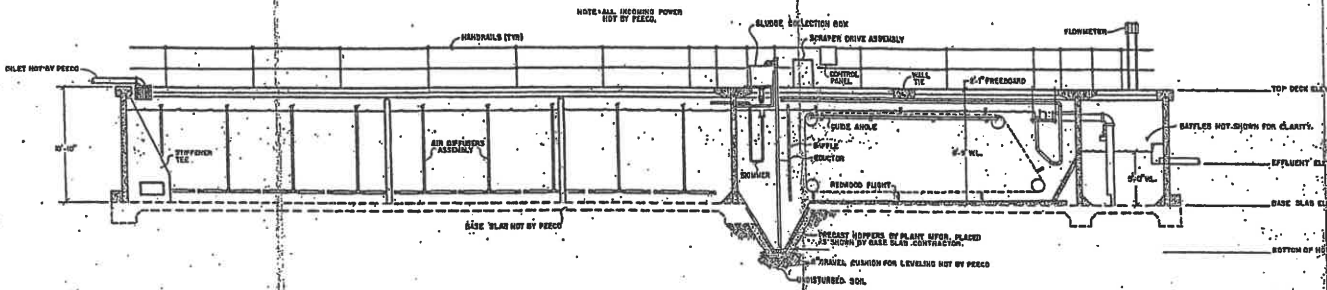
PEECO DWG NO: 224-056-01
SCALE: 1/8"=1'-0"
DATE: 10/21/01
DWN BY: LCG.
APPROVED:

PALM VALLEY ESTATES
WWTP -REPLACEMENT
PLAN VIEW & SECTION

SHEET 01 of 48



PLAN VIEW



SECTION VIEW A-A



FLOW DIAGRAM

SYMBOLS

AER-	AERATION ---------- 101,709 GPD	
ASH-	AERATED SLUDGE HOLDING ---- 12,870 GPD.	
CLAR-	CLARIFIER ---------- 31,956 GPD	428 SQ.FT.
CCC-	CHLORINE CONTACT CHAMBER --- 4,360 GPD	

- PARTITION, WATER TIGHT
- BAFFLE
- FLOW PORT/PIPE
- BLOWER & MOTOR
- CONTROL PANEL
- AIR DIFFUSER
- AIR BUBBLER
- SLUDGE EDUCTOR ASSEMBLY
- SLUDGE RETURN LINE
- SLUDGE DRAW OFF LINE
- SKIMMER
- SKIMMER DISCHARGE PIPING
- WEIR BOX/TROUGH ASSEMBLY
- SCUM BAFFLE
- WEIR DISCHARGE PIPING
- MIXING TUBE
- "V" NOTCH WEIR
- SUPERNATANT DECANT
- BARSCREEN
- CHLORINATOR
- CHLORINATOR HOUSE
- SLUDGE COLLECTION BOX
- FLOWMETER
- SKIMMER TROUGH
- SCRAPER DRIVE ASSEMBLY
- SCRAPER SPROCKET
- SCRAPER DRIVE SHAFT
- SCRAPER DRIVE CHAIN
- SCRAPER DRIVE FLIGHT
- STIFFENER TEE
- WALL TIE
- STAIR
- INLET FILTER & SILENCER
- DISCHARGE SILENCER
- EMERGENCY OVERFLOW
- CHECK VALVE
- PRESSURE GAGE
- GATE VALVE
- AIR CONTROL VALVE
- WEIGHTED, PRESSURE RELIEF VALVE

PEECO
PROCESS ENGINEERED EQUIPMENT CO.
2002 NORTH PORT AVENUE 512-884-0443
CORPUS CHRISTI, TEXAS 78401

NO	DATE	REVISION
R-2	10-15-85	REVISED AIR DIFFUSER AREA CLARIFIER TO 428 SQ.
R-1	9-25-85	REVISED CONCRETE AREA SLAB.

PEECO DWG NO: 1059-852-08
SCALE: 3/16"=1'-0"
DATE: 4-23-85
DWN BY: D.C.
APPROVED:

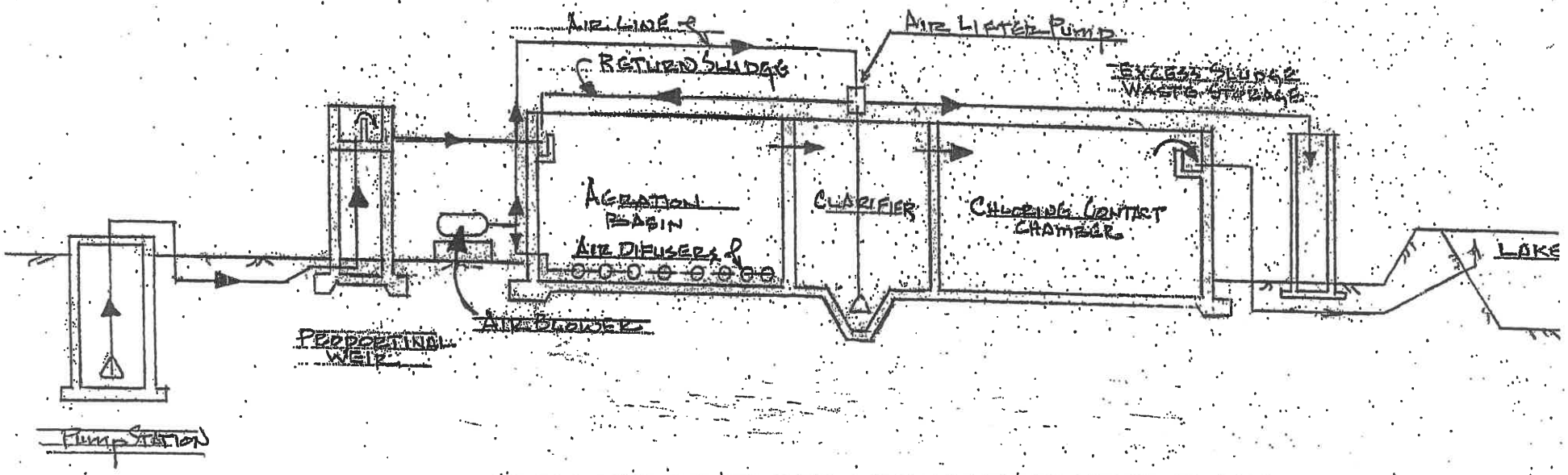
PROPOSED 19,000 GPD, 30, 20/20 EFFLUENT, EXTENDED AERATION WASTEWATER TREATMENT PLANT.

PALM VALLEY ESTATES

SHEET

PLANT No. 3

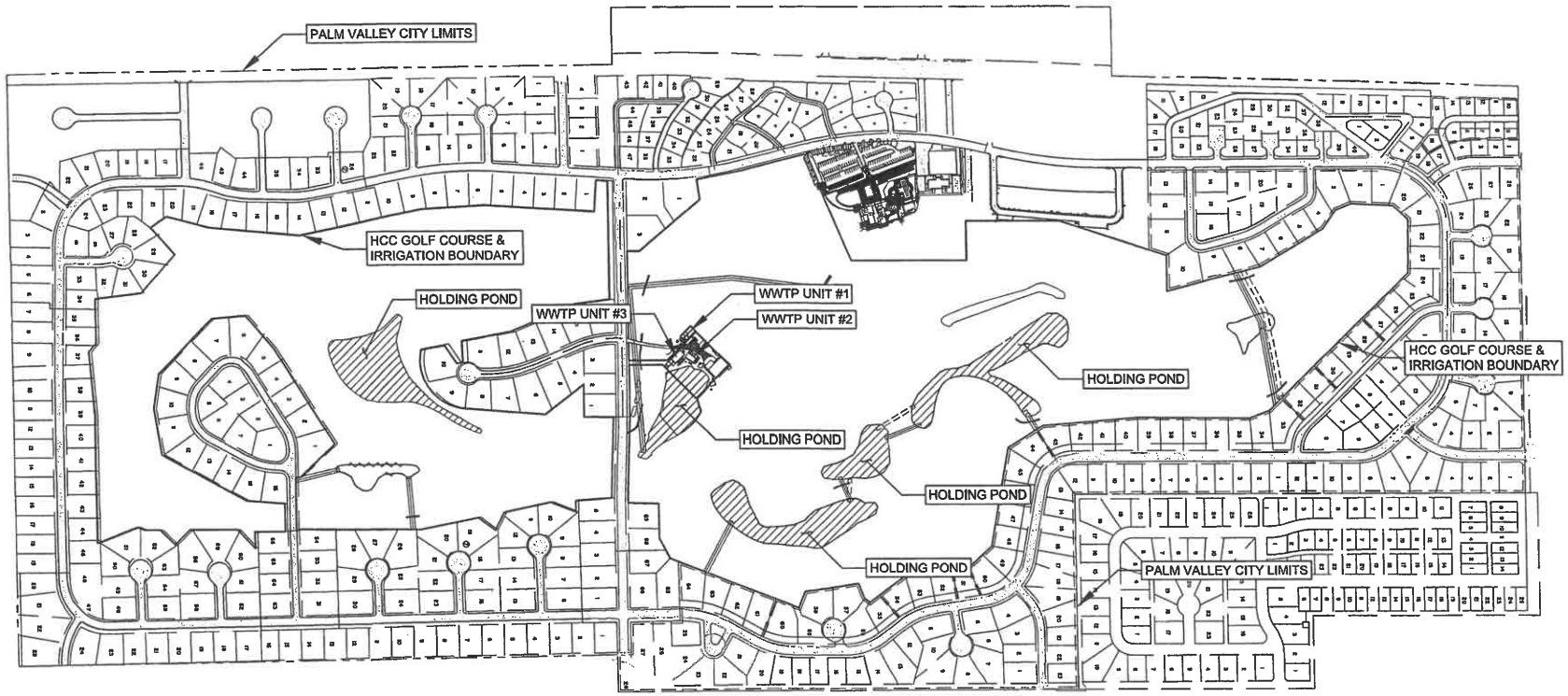
ATTACHMENT "H"
PROCESS FLOW DIAGRAM



FLOW DIAGRAM FOR EXTENDED ACTIVATED SLUDGE PLANT

TYPICAL FOR ALL THREE PLANTS

ATTACHMENT "I"
SITE PLAN



FOR: WQ0010972002

FERRIS, FLINN & MEDINA, LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
PHONE (956) 364-2236 FAX (956) 364-1023
TEXAS BOARD OF PROFESSIONAL LAND SURVEYING FIRM REGISTRATION NO. 100370-00
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM REGISTRATION NO. F-897

1" = 500'	DRAWN BY: DM	24FEB15	JOB NO: 246-021

F:\0246 City of Palm Valley\246-021 TPDES Discharge Permit Renewal\2015 PERMIT RENEWAL\SITE PLAN.dwg, MH, 2/24/2015 9:22:04 AM, 1:1

ATTACHMENT "J"
EFFLUENT STORAGE AND EVAPORATION PONDS

EFFLUENT STORAGE AND EVAPORATION PONDS

The City of Palm Valley WWTP's treated domestic wastewater effluent is discharged via a six inch and an eight inch pipe into a pond located within the golf course of the Harlingen Country Club. Said lake is interconnected with 4 other ponds. The total water surface area of the five ponds is 8.9 acres, and the total volume capacity is estimated to be 44.58 Ac.-Ft. All ponds are irregular in shape and are lined with compacted clay. The water in the ponds is used to irrigate the golf course. The table below provides the estimated water surface area and storage volume of each pond:

POND NO.	SURFACE AREA (AC.)	STORAGE VOLUME (AC-FT)	DIMENSIONS	LINER TYPE
1	1.27	6.39	IRREGULAR	COMPACTED CLAY
2	2.22	11.14	IRREGULAR	COMPACTED CLAY
3	1.92	9.6	IRREGULAR	COMPACTED CLAY
4	1.07	5.36	IRREGULAR	COMPACTED CLAY
5	2.42	12.09	IRREGULAR	COMPACTED CLAY

ATTACHMENT "K"
ANNUAL CROPPING PLAN

ANNUAL CROPPING PLAN

The land area that is irrigated by the effluent from the City of Palm Valley WWTP is a golf course belonging to the Harlingen Country Club. No harvested crops are grown on the land the effluent irrigates. The recreational turf grass that is grown on the golf course is irrigated all year long due to the warm climate of Palm Valley and is mowed daily.

ATTACHMENT "L"
WELL AND MAP INFORMATION

WELL AND MAP INFORMATION

The development surrounding the Harlingen Country Club golf course which is irrigated with the effluent from the City of Palm Valley WWTP is serviced by municipal drinking water delivered through pipelines. All development within a one mile radius has municipal drinking water instead of private water wells and all the municipal drinking water is supplied from surface water out of the Rio Grande not wells or aquifers.

ATTACHMENT "M"
SOIL MAP

Soil Map—Cameron County, Texas
(CITY OF PALM VALLEY SOIL MAP)



Map Scale: 1:12,100 if printed on A portrait (8.5" x 11") sheet.

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

N

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
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: Cameron County, Texas
Survey Area Data: Version 10, Sep 29, 2014

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

Date(s) aerial images were photographed: Dec 10, 2010—Jan 25, 2011

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

Cameron County, Texas (TX061)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HO	Hidalgo sandy clay loam, 0 to 1 percent slopes	10.7	2.5%
HU	Hidalgo-Urban land complex, 0 to 1 percent slopes	36.4	8.6%
RA	Racombes sandy clay loam	33.6	7.9%
RDX	Racombes soils and urban land	201.5	47.5%
RE	Raymondville clay loam	13.6	3.2%
RM	Raymondville-Urban land complex	116.3	27.4%
WAA	Willacy fine sandy loam, 0 to 1 percent slopes	12.3	2.9%
Totals for Area of Interest		**424.3**	**100.0%**

ATTACHMENT "N"
SOIL ANALYSIS

Professional Service Industries, Inc.
3 Burwood Lane
San Antonio, TX 78216
Tel: +1 956 423 6826

Soil Sample

July 31, 2024

Ms. Tracie Tolle
Compliance Monitoring Section
Enforcement Division (MC 224)
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: Bi-Annual Wastewater Effluent Sampling
5400 Bougainvillea Dr., Palm Valley Estates
Harlingen, Cameron County, Texas
TCEQ Permit No. WQ0010972002
PSI Project No. 0435-6045

Dear Ms. Tolle:

In general accordance with the specifications outlined in the TCEQ permit number WQ0010972002 issued October 20, 2015, Professional Service Industries, Inc. (PSI) has collected and analyzed wastewater effluent samples and soil samples obtained from the wastewater effluent discharge point and irrigation site, respectively. The Palm Valley Wastewater Treatment Plant is located at 5400 Bougainvillea Drive in Harlingen, Texas.

On April 17, 2024, PSI visited the subject site to sample the effluent from the wastewater treatment plant. As stipulated in the permit, wastewater samples were collected and submitted to an analytical laboratory for testing of the following parameters listed below.

- Chemical Biological Oxygen Demand - 5 day test ($CBOD^5$, SM 5210B)
- Residual Chlorine (EPA 330.5)
- Fecal Coliform (SM 9222D)
- Enterococci (SM 9230C)
- Inorganic Anions – Sulfate, Nitrate and Chloride (EPA 300)
- Ammonia Nitrogen (SM 4500NH3D)
- Total Kjeldahl Nitrogen (TKN) (SM 4500NH3D)
- Dissolved Oxygen (SM 45000-G)
- Total Dissolved Solids (SM 2540C)
- Specific Conductance (SM 2510B)
- Total Suspended Solids (SM 2540D)
- pH (SM 4500H B)

PSI delivered the samples to A&B Laboratories, Inc. in Harlingen, Texas and the City of Corpus Christi Water Utilities Laboratory in Calallen, Texas for analyses on April 17, 2024. PSI received the completed lab analyses via e-mail from A&B Laboratories and City of Corpus Christi Water Utilities Laboratory. The analyses are summarized in the tables below. Copies of the analytical reports from A&B Laboratories and City of Corpus Christi Water Utilities Laboratory are attached to this report.

Summary of Analytical Testing Results Bi-Annual Wastewater Effluent Sampling Sampling Date: April 17, 2024	
Analytical Parameter	Testing Result
CBOD[(5)] (mg/L)	<2
Residual Chlorine (mg/L)	0.06
Fecal Coliform (MPN)	272.3
Enterococci (MPN)	>2419.6
Sulfate (mg/L)	269
Chloride (mg/L)	319
Nitrate Nitrogen (mg/L)	49.3
Ammonia Nitrogen (mg/L)	<0.1
Total Kjeldahl Nitrogen (mg/L)	1.4
Dissolved Oxygen (mg/L)	12
TDS (mg/L)	1280
Specific Conductance (umho/cm)	1960
TSS (mg/L)	12.7
pH (Std. Units)	6.6

PSI collected soil samples were collected utilizing a decontaminated hand auger and steel hand shovel. Samples at the irrigation site (Bougainvillea) were collected from the following intervals: 0 to 6 inches; 6 to 12 inches; and 12 to 18 inches below the ground surface. The soil samples were collected and submitted to an analytical laboratory for testing of the following parameters listed below.

- Total Nitrogen (EPA 351.4/300)
- Total Potassium (SW-846 6010C)
- Phosphorus (SW-846 6010C)
- Conductivity (ASTM D4940)
- Total Kjeldahl Nitrogen (TKN) (EPA 351.4)

Soil Samples from the specified depth intervals at the respective sites were thoroughly mixed and composited to yield a single sample from each depth interval. The samples were preserved on ice, sealed and transported with Chain-of-Custody documentation to A&B Laboratories in Harlingen, Texas. The below table summarizes the laboratory analytical results from the sampling event.

Summary of Analytical Testing Results Annual Sampling Event 5400 Bougainvillea Drive Irrigation Site Sampling Date: April 17, 2024			
Analytical Parameter	**Sample Depth (in.)**		
Depth	**0-6"**	**6-12"**	**12-18"**
Total Nitrogen (mg/Kg)	744	1040	619
Total Potassium (mg/Kg)	4010	3000	3360
Phosphorus (mg/Kg)	274	405	355
Conductance(umho/cm)	320	367	788
TKN (mg/Kg)	735	1040	619

Complete copies of the analytical reports and Chain-of-Custody documentation are attached for your information.

If you have any questions or comments on these results, please contact me at your convenience at 956-423-6826.

Respectfully submitted,
Professional Service Industries, Inc.

Briana Garcia
Project Manager

John Langan, P.G.
Principal Consultant



Attachments: Historically Tabulated Data Chart
Soil Sampling Location Map
A&B Laboratory Report
City of Corpus Christi Water Utilities Laboratory Report

City of Palm Valley WTP Effluent Water Analytical Data														
Analysis / Date	11/30/2012	4/2/2013	10/17/2013	4/15/2014	11/18/2014	3/30/2015	10/26/2015	1/16/2017	8/9/2017	1/24/2018	12/7/2018	7/8/2019	7/25/2023	4/17/2024
CBOD[5] (mg/L)	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	5.37	2.69	< 2.0	< 2.0	< 2.1	< 2.0	<2.0	<2.0
Residual Chlorine (mg/L)	0.32	0.63	0.43	0.18	0.19	< 0.05	< 0.05	0.02	0.15	< 0.05	< 0.06	0.06	<0.02	0.06
Fecal Coliform (cfu/100mL)	< 900	< 1.0	2	112	28	150	48	1145	34	< 2.0	143.5	22	820	272.3
Enterococci (MPN)	2	< 1.0	8	95	< 10	90	112	2419.6	4.6	146	161.2	1203	539	>2419.6
Sulfate (mg/L)	270	289	359	364	319	539	505	300	260	314	315	402	187	269
Chloride (mg/L)	290	286	370	395	411	651	444	241	270	274	286	329	252	319
Nitrate Nitrogen (mg/L)	28	31.2	34	30	21.9	26.3	11.4	25	22	23.1	21.5	12	44.9	49.3
Ammonia Nitrogen (mg/L)	0.14	< 1.0	< 1.0	< 1.0	< 0.1	< 0.1	4.1	6	< 0.1	< 0.1	< 0.2	< 0.1	<0.014	<0.1
Total Kjeidahl Nitrogen (mg/L)	< 0.1	< 0.1	0.9	< 5.0	2	< 0.5	5.2	7.2	0.68	1.5	< 5.1	< 0.5	0.745	1.4
Dissolved Oxygen (mg/L)	10.6	10.32	11.2	9.54	8.99	8.43	8.01	9.03	10	12.01	9.25	8.03	8.04	12
TDS (mg/L)	1100	1214	1184	1288	1388	1620	1890	1164	1000	1028	1098	1438	1220	1280
Specific Conductance (umho/cm)	1600	1815	1835	1880	2330	2390	1560	1723	1800	1581	1712	2160	1640	1960
TSS (mg/L)	14	16.8	9.9	6.1	10	5.8	12	7.2	6	9.1	20	9.7	7.75	12.7
pH (Std. Units)	7.3	6.92	7	7.38	7.37	7.38	6.9	7	10	4.78	7.5	7.5	6.5	6.6

City of Palm Valley WTP Effluent Water and Soil Sampling Analytical Data									
Date of Soil Sampling	**11/30/2012**			**11/5/2013**			**10/26/2015**		
Depth (in)	**0-6"**	**6-18"**	**18-30"**	**0-6"**	**6-12"**	**12-18"**	**0-6"**	**6-12"**	**12-18"**
Total Nitrogen (mg/Kg)	1100	960	870	1787	1331	876	363.3	319.5	432.6
Total Potassium (mg/Kg)	3800	5100	4600	2905.7	3562.2	4286.1	3000.4	3264.7	3600.4
Phosphorus (mg/Kg)	-	1.1	1.9	908	241.6	290.9	451.5	304.2	360
(umho/cm)	520	1400	1600	253	357	337	80.6	130.1	75.6
TKN (mg/Kg)				-	-	-	-	-	-
pH	8	7.9	8	-	-	-	-	-	-

City of Palm Valley WTP Effluent Water and Soil Sampling Analytical Data									
Date of Soil Sampling	**1/16/2017**			**1/24/2018**			**7/8/2019**		
Depth (in)	**0-6"**	**6-12"**	**12-18"**	**0-6"**	**6-12"**	**12-18"**	**0-6"**	**6-12"**	**12-18"**
Total Nitrogen (mg/Kg)	892.8	223.5	251.7	1258.8	601.3	639	7.34	34.69	30.3
Total Potassium (mg/Kg)	3026.4	3187.7	2756	3670	3420	3640	4490	3630	3050
Phosphorus (mg/Kg)	463.4	323.2	256.3	506	317	606	576	299	193
(umho/cm)	661	538	336	580.2	548.3	621.3	262.9	497.7	296.8
TKN (mg/Kg)	882.9	217.5	247	1250.4	594.7	362	18.2	32.8	38.1
pH	-	-	-	-	-	-	-	-	-

City of Palm Valley WTP Effluent Water and Soil Sampling Analytical Data									
Date of Soil Sampling	**7/25/2023**			**4/17/2024**					
Depth (in)	**0-6"**	**6-12"**	**12-18"**	**0-6"**	**6-12"**	**12-18"**	**0-6"**	**6-12"**	**12-18"**
Total Nitrogen (mg/Kg)	2140	723	292	744	1040	619			
Total Potassium (mg/Kg)	5540	2370	4050	4010	3000	3360			
Phosphorus (mg/Kg)	928	627	333	274	405	355			
(umho/cm)	391	158	587	320	367	788			
TKN (mg/Kg)	2100	721	292	735	1040	619			
pH									



intertek psi
2020 N. Loop 499, Suite 302
Harlingen, Texas 78550
Office - 956.423.6826

Soil Sampling Location Map

Bi-Annual Wastewater Effluent And Soil Sampling
5400 Bougainvillea Dr. Palm Valley Estates
Harlingen, Cameron County, Texas
PSI Project No.: 0435-6045

NOT TO SCALE
Google Earth 2023

N

Laboratory Analysis Report

Total Number of Pages: 26

Job ID : 24042182

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
04356045 / Palm Valley Sampling

Report To :

Client Name: Intertek - PSI
Attn: Briana Garcia
Client Address: 3 Burwood Ln.
City, State, Zip: San Antonio, Texas, 78216

P.O.#.:
Sample Collected By: Briana Garcia
Date Collected: 04/17/24

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Effluent S-1	Water	24042182.01
Comp 1 (0-6")	Soil	24042182.02
Comp 2 (6-12")	Soil	24042182.03
Comp 3 (12-18")	Soil	24042182.04

Released By: Ashley Arnett
Title: Project Manager
Date: 04/25/2024

This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 04/18/2024 10:12

Report Number: RPT240425094

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 24042182

Date: 4/25/2024

General Term Definition

Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D.F.	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation. Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M + DF	SDL	Sample Detection Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit

Qualifier Definition

H3	Sample was received and analyzed past holding time.
M1	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference. "The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
M6	Sample concentration high, more than 4X spike concentration. Control limits do not apply."The sample randomly selcted as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."

LABORATORY TEST RESULTS

Job ID : 24042182

Date 4/25/2024

Client Name: Intertek - PSI

Attn: Briana Garcia

Project Name: 04356045 / Palm Valley Sampling

Client Sample ID: Effluent S-1
Date Collected: 04/17/24
Time Collected: 11:03
Other Information:

Job Sample ID: 24042182.01
Sample Matrix Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2510B	Conductivity								
	Conductance	1960	umho/cm @ 25°C	1	1			04/23/24 12:00	JCA
SM 2540C	Total Dissolved Solids								
	TDS	1280	mg/L	1	10			04/22/24 13:00	AL
SM 2540D	Total Suspended Solids								
	TSS	12.7	mg/L	0.333	0.833			04/19/24 17:01	AL
EPA 300.0	Anions								
	Chloride	319	mg/L	50.00	5			04/18/24 19:32	KPE
	Nitrate-N	49.3	mg/L	50.00	5			04/18/24 19:32	KPE
	Sulfate	269	mg/L	50.00	5			04/18/24 19:32	KPE
EPA 350.1									
	Ammonia as N	BRL	mg/L	1	0.1			04/22/24 12:56	SKC
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN	1.4	mg/L	1	0.2			04/22/24 15:43	SKC
SM 4500Cl-G	Chlorine, as Total Residual								
	Chlorine, Free[2]	BRL	mg/L	1	0.05		H3	04/19/24 12:45	JCA
	Chlorine, Total	0.06	mg/L	1	0.05		H3	04/19/24 12:45	JCA
SM 4500H B	Corrosivity, pH								
	pH	6.6	s.u.				H3	04/22/24 10:00	BR
	Temperature when read, °C[2]	20.8	s.u.				H3	04/22/24 10:00	BR
SM 4500O-G	Dissolved Oxygen								
	Dissolved Oxygen	12	mg/L	1	0.1		H3	04/25/24 10:00	SP
SM 5210B	Carbonaceous Biochemical Oxygen Demand								
	CBOD	BRL	mg/L	1	2			04/19/24 11:00	SP

ab-q212-0321
Soil results reported on dry weight basis

LABORATORY TEST RESULTS

Job ID : 24042182

Date 4/25/2024

Client Name: Intertek - PSI

Attn: Briana Garcia

Project Name: 04356045 / Palm Valley Sampling

Client Sample ID: Comp 1 (0-6")
Date Collected: 04/17/24
Time Collected: 10:11
Other Information:

Job Sample ID: 24042182.02
Sample Matrix Soil
% Moisture 9.74

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	9.74	%	1	0.1			04/22/24 14:45	BR
EPA 300.0	Water Soluble Anions								
	Nitrate/Nitrite as N*	9.37	mg/Kg	1.00	1.11			04/23/24 07:58	KPE
	Nitrate-N*	8.25	mg/Kg	1.00	1.11			04/23/24 07:58	KPE
	Nitrite-N*	1.12	mg/Kg	1.00	1.11			04/23/24 07:58	KPE
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN[2]*	735	mg/Kg	20	88.6			04/22/24 16:53	SKC
EPA351.2/EPA351.4/EPA353.2/EPA300.0									
	Total Nitrogen[1]*	744	mg/Kg	1	5.54			04/25/24 14:30	SKC
ASTM D4940	Electrical Conductivity								
	Conductance[2]	320	umho/cm @ 25°C	1	5			04/23/24 12:30	SG
SW-846 6010D	Total Metals								
	Potassium*	4010	mg/Kg	20	111			04/19/24 12:17	BDC
SW-846 6010D									
	Phosphorus*	274	mg/Kg	20	11.1			04/19/24 12:17	BDC

ab-q212-0321
Soil results reported on dry weight basis

LABORATORY TEST RESULTS

Job ID : 24042182

Date 4/25/2024

Client Name: Intertek - PSI

Attn: Briana Garcia

Project Name: 04356045 / Palm Valley Sampling

Client Sample ID: Comp 2 (6-12")
Date Collected: 04/17/24
Time Collected: 10:31
Other Information:

Job Sample ID: 24042182.03
Sample Matrix Soil
% Moisture 8.26

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	8.26	%	1	0.1			04/22/24 14:45	BR
EPA 300.0	Water Soluble Anions								
	Nitrate/Nitrite as N*	1.78	mg/Kg	1.00	1.09			04/23/24 09:03	KPE
	Nitrate-N*	1.78	mg/Kg	1.00	1.09			04/23/24 09:03	KPE
	Nitrite-N*	BRL	mg/Kg	1.00	1.09			04/23/24 09:03	KPE
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN[2]*	1040	mg/Kg	10	43.6			04/22/24 16:53	SKC
EPA351.2/EPA351.4/EPA353.2/EPA300.0									
	Total Nitrogen[1]*	1040	mg/Kg	1	5.45			04/25/24 14:30	SKC
ASTM D4940	Electrical Conductivity								
	Conductance[2]	367	umho/cm @ 25°C	1	5			04/23/24 12:30	SG
SW-846 6010D	Total Metals								
	Potassium*	3000	mg/Kg	20	109			04/19/24 12:19	BDC
SW-846 6010D									
	Phosphorus*	405	mg/Kg	20	10.9			04/19/24 12:19	BDC

ab-q212-0321
Soil results reported on dry weight basis

LABORATORY TEST RESULTS

Job ID : 24042182

Date 4/25/2024

Client Name: Intertek - PSI

Attn: Briana Garcia

Project Name: 04356045 / Palm Valley Sampling

Client Sample ID: Comp 3 (12-18")
Date Collected: 04/17/24
Time Collected: 10:52
Other Information:

Job Sample ID: 24042182.04
Sample Matrix Soil
% Moisture 9.79

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	9.79	%	1	0.1			04/22/24 14:45	BR
EPA 300.0	Water Soluble Anions								
	Nitrate/Nitrite as N*	BRL	mg/Kg	1.00	1.11			04/23/24 09:25	KPE
	Nitrate-N*	BRL	mg/Kg	1.00	1.11			04/23/24 09:25	KPE
	Nitrite-N*	BRL	mg/Kg	1.00	1.11			04/23/24 09:25	KPE
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN[2]*	619	mg/Kg	10	44.3			04/22/24 16:53	SKC
EPA351.2/EPA351.4/EPA353.2/EPA300.0									
	Total Nitrogen[1]*	619	mg/Kg	1	5.54			04/25/24 14:30	SKC
ASTM D4940	Electrical Conductivity								
	Conductance[2]	788	umho/cm @ 25°C	1	5			04/23/24 12:30	SG
SW-846 6010D	Total Metals								
	Potassium*	3360	mg/Kg	20	111			04/19/24 12:21	BDC
SW-846 6010D									
	Phosphorus*	355	mg/Kg	20	11.1			04/19/24 12:21	BDC

ab-q212-0321
Soil results reported on dry weight basis
[1]-Parameter is not accredited.
[2]-Parameter not available for accreditation.
*-Moisture Attached

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Total Suspended Solids **Method :** SM 2540D **Reporting Units :** mg/L

QC Batch ID : Qb240419136 **Created Date :** 04/19/24 **Created By :** ALassile

Samples in This QC Batch : 24042182.01

Sample Preparation : PB24041964 **Prep Method :** SM 2540D **Prep Date :** 04/19/24 17:00 **Prep By :** ALassile

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TSS	TSS	BRL	mg/L	1	2.50		

QC Type: Duplicate

QC Sample ID: 24042182.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TSS	13.7	12.7	mg/L	7.6	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TSS	500	455.0	91						72-108	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Anions **Method :** EPA 300.0 **Reporting Units :** mg/L

QC Batch ID : Qb24041915 **Created Date :** 04/18/24 **Created By :** KPerera

Samples in This QC Batch : 24042182.01

Sample Preparation : PB24041862 **Prep Method :** EPA 300.0 **Prep Date :** 04/18/24 16:30 **Prep By :** KPerera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chloride	16887-00-6	BRL	mg/L	1.00	0.1		
Nitrate-N	14797-55-8	BRL	mg/L	1.00	0.1		
Nitrite-N	14797-65-0	BRL	mg/L	1.00	0.1		
Sulfate	14808-79-8	BRL	mg/L	1.00	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	1	0.957	95.7	1	0.911	91.1	4.9	20	90-110	
Nitrate-N	1	0.950	95	1	0.962	96.2	1.2	20	90-110	
Nitrite-N	1	0.971	97.1	1	0.969	96.9	0.2	20	90-110	
Sulfate	1	1.03	103	1	0.909	90.9	12.7	20	90-110	

QC Type: MS and MSD
QC Sample ID: 24042216.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	45.60	1	46.5	92.8						80-120	
Nitrate-N	0.776	1	2.28	151						80-120	M1
Nitrite-N	BRL	1	1.31	131						80-120	M1
Sulfate	37.65	1	38.7	102						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Total Recoverable Metals **Method :** SW-846 6010D **Reporting Units :** mg/Kg

QC Batch ID : Qb24041962 **Created Date :** 04/19/24 **Created By :** BChristofer

Samples in This QC Batch : 24042182.02,03,04

Digestion : PB24041920 **Prep Method :** SW-846 3050B **Prep Date :** 04/19/24 08:20 **Prep By :** M_Gonzalez

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Potassium	7440-09-7	BRL	mg/Kg	1	5		

QC Type: Duplicate

QC Sample ID: 24042196.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Potassium	380	374	mg/Kg	1.6	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Potassium	250	262	105	250	259	104	1.1	20	80-116	

QC Type: MS and MSD

QC Sample ID: 24042196.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Potassium	374	250	678	121						75-125	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Total Recoverable Metals **Method :** SW-846 6010D **Reporting Units :** mg/Kg

QC Batch ID : Qb24041963 **Created Date :** 04/19/24 **Created By :** BChristofer

Samples in This QC Batch : 24042182.02,03,04

Digestion : PB24041924 **Prep Method :** SW-846 3050B **Prep Date :** 04/19/24 08:20 **Prep By :** M_Gonzalez

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Phosphorus	7723-14-0	BRL	mg/Kg	1	0.5		

QC Type: Duplicate

QC Sample ID: 24042196.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Phosphorus	5270	5140	mg/Kg	2	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Phosphorus	25	24.9	99.8	25	24.7	98.7	1	20	80-120	

QC Type: MS and MSD

QC Sample ID: 24042196.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phosphorus	5140	25	6160	4076						80-120	M6

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Chlorine, as Total Residual **Method :** SM 4500Cl-G **Reporting Units :** mg/L

QC Batch ID : Qb24041987 **Created Date :** 04/19/24 **Created By :** JCasas

Samples in This QC Batch : 24042182.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chlorine, Free		BRL	mg/L	1	0.05		
Chlorine, Total		BRL	mg/L	1	0.05		

QC Type: Duplicate

QC Sample ID: 24042225.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Chlorine, Free	BRL	BRL	mg/L	0	20		
Chlorine, Total	BRL	BRL	mg/L	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chlorine, Free	1	0.97	97	1	0.98	98	1	20	79-113	
Chlorine, Total	1	0.99	99	1	0.99	99	0	20	79-113	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Total Kjeldahl Nitrogen **Method :** EPA 351.2 **Reporting Units :** mg/Kg

QC Batch ID : Qb240422100 **Created Date :** 04/22/24 **Created By :** Srijan

Samples in This QC Batch : 24042182.02,03,04

Sample Preparation : PB24042252 **Prep Method :** EPA 351.2_ **Prep Date :** 04/22/24 10:00 **Prep By :** Srijan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TKN		BRL	mg/Kg	1	4		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TKN	100	107.12	107	100	107.79	108	0.6	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 24042182.02

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TKN	663.29	100	942.902	280	100	951.892	289	0.9	10	90-110	M6

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Corrosivity, pH **Method :** SM 4500H B **Reporting Units :** s.u.

QC Batch ID : Qb24042232 **Created Date :** 04/22/24 **Created By :** BRose

Samples in This QC Batch : 24042182.01

QC Type: Duplicate

QC Sample ID: 24041964.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
pH	7.9	7.9	s.u.	0	5		H3

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result		LCSD Assigned	LCSD Result		RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.0	4.00							98.75-101.25	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Total Dissolved Solids **Method :** SM 2540C **Reporting Units :** mg/L

QC Batch ID : Qb24042248 **Created Date :** 04/22/24 **Created By :** ALassile

Samples in This QC Batch : 24042182.01

Sample Preparation : PB24042223 **Prep Method :** SM 2540C **Prep Date :** 04/22/24 12:00 **Prep By :** ALassile

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TDS	TDS	BRL	mg/L	1	10		

QC Type: Duplicate

QC Sample ID: 24042131.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TDS	932.0	952.0	mg/L	2.1	5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	502.0	100						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Anions **Method :** EPA 300.0 **Reporting Units :** mg/Kg

QC Batch ID : Qb24042269 **Created Date :** 04/22/24 **Created By :** KPerera

Samples in This QC Batch : 24042182.02,03,04

Sample Preparation : PB24042220 **Prep Method :** EPA 300.0 **Prep Date :** 04/22/24 11:00 **Prep By :** KPerera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chloride	16887-00-6	BRL	mg/Kg	1.0	1		
Nitrate/Nitrite as N		BRL	mg/Kg	1.0	1		
Nitrate-N	14797-55-8	BRL	mg/Kg	1.0	1		
Nitrite-N	14797-65-0	BRL	mg/Kg	1.0	1		
Sulfate	14808-79-8	BRL	mg/Kg	1.0	1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	10	9.01	90.1	10	9.49	94.9	5.2	20	90-110	
Nitrate/Nitrite as N	20	18.212906	91.1	20	20.028700	100	9.5	20	90-110	
Nitrate-N	10	9.11	91.1	10	10.1	101	10.3	20	90-110	
Nitrite-N	10	9.10	91	10	9.88	98.8	8.2	20	90-110	
Sulfate	10	9.26	92.6	10	10.4	104	11.6	20	90-110	

QC Type: MS and MSD
QC Sample ID: 24042086.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	BRL	10	9.49	94.9						80-120	
Nitrate/Nitrite as N	BRL	20	18.824572	94.1						80-120	
Nitrate-N	BRL	10	9.45	94.5						80-120	
Nitrite-N	BRL	10	9.38	93.8						80-120	
Sulfate	BRL	10	11.3	113						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : **Method :** **EPA 350.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb24042277 **Created Date :** 04/22/24 **Created By :** Srijan

Samples in This QC Batch : 24042182.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Ammonia as N	NH3-N	BRL	mg/L	1	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ammonia as N	1	1.0146	101	1	1.0055	101	0.9	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 24042344.11

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Ammonia as N	1.7596	1	2.7594	100	1	2.7699	101	0.4	10	90-110	

QC Type: MS2 and MSD2
QC Sample ID: 24042053.01

Parameter	Sample Result	MS2 Spk Added	MS2 Result	MS2 % Rec	MSD2 Spk Added	MSD2 Result	MSD2 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Ammonia as N	BRL	1	1.0714	107	1	1.0667	107	0.4	10	90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : % Moisture **Method :** SM 2540G **Reporting Units :** %

QC Batch ID : Qb24042279 **Created Date :** 04/22/24 **Created By :** BRose

Samples in This QC Batch : 24042182.02,03,04

Sample Preparation : PB24042238 **Prep Method :** SM 2540G **Prep Date :** 04/22/24 14:00 **Prep By :** BRose

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
% Moisture		BRL	%	1	0.1		

QC Type: Duplicate

QC Sample ID: 24042140.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
% Moisture	13.5	13.5	%	0	20		

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Total Kjeldahl Nitrogen **Method :** EPA 351.2 **Reporting Units :** mg/L

QC Batch ID : Qb24042299 **Created Date :** 04/22/24 **Created By :** Srijan

Samples in This QC Batch : 24042182.01

Sample Preparation : PB24042251 **Prep Method :** EPA 351.2_ **Prep Date :** 04/22/24 10:00 **Prep By :** Srijan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TKN		BRL	mg/L	1	0.2		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TKN	5	5.2012	104	5	5.2317	105	0.6	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 24042344.11

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TKN	3.2710	5	8.3751	102	5	8.2726	100	1.2	10	90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Conductivity **Method :** SM 2510B **Reporting Units :** umho/cm @ 2

QC Batch ID : Qb24042378 **Created Date :** 04/23/24 **Created By :** JCasas

Samples in This QC Batch : 24042182.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Conductance		BRL	umho/cm @ 25°C	1	1		

QC Type: Duplicate

QC Sample ID: 24042435.03

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Conductance	2540	2540	umho/cm	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Conductance	100	102.5	103						90-110	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Conductivity **Method :** ASTM D4940 **Reporting Units :** umho/cm @ 2

QC Batch ID : Qb24042380 **Created Date :** 04/23/24 **Created By :** Sgarcia

Samples in This QC Batch : 24042182.02,03,04

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Conductance		BRL	umho/cm @ 25°C	1	5		

QC Type: Duplicate

QC Sample ID: 24042182.04

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Conductance	788.2	788.1	umho/cm	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Conductance	100	102.5	103						90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : Carbonaceous Biochemical Oxygen Demand **Method :** SM 5210B **Reporting Units :** mg/L

QC Batch ID : Qb240424169 **Created Date :** 04/19/24 **Created By :** sadeshp

Samples in This QC Batch : 24042182.01

Sample Preparation : PB24042420 **Prep Method :** SM 5210B **Prep Date :** 04/19/24 11:00 **Prep By :** sadeshp

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
CBOD		BRL	mg/L	1	2		

QC Type: Duplicate

QC Sample ID: 24042209.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
CBOD	8.63	8.69	mg/L	0.7	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
CBOD	198	176.00	88.9	198	184.00	92.9	4.4	20	84.6-115	

QUALITY CONTROL CERTIFICATE

Job ID : 24042182 **Date :** 4/25/2024

Analysis : **Dissolved Oxygen** **Method :** **SM 4500O-G** **Reporting Units :** **mg/L**

QC Batch ID : Qb24042527 **Created Date :** 04/25/24 **Created By :** sadeshp

Samples in This QC Batch : 24042182.01

QC Type: **Duplicate**

QC Sample ID: **24042182.01**

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Dissolved Oxygen	11.98	11.96	mg/L	0.2	20		H3

Chain of Custody

Job ID:24042182

04/18/2024 Intertek - PSI ANA

The Chain of Custody is a Legal Document

Page 1 of 1

REPORT TO:		INVOICE TO:	
Company:	PSI	Company:	SAME
Address:	3 Burwood Lane San Antonio, TX 78216	Address:	
Contact:	Briana Garcia	Contact:	
Phone:	(956) 970-7489	Phone:	
Fax: ☐		Fax: ☐	
E-mail: ☐	briana.garcia@intertek.com	E-mail: ☐	

713-455-6091 Fax
ablabs.com

A&B JOB ID #

5. Project # 04356045

3. PO #

3a. A&B Quote #

4. Turnaround Time (Business Days)

☐ 1 Day* ☐ Other:

☐ 2 Days*

☐ 3 Days* *Surcharge applies

☑ 7 Days - Standard

6. Project Name/Location: Palm Valley Sampling

7. Reporting Requirement:

☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II ☐ PST ☐ MDL ☐ EDD

8. Sampler's Name & Company (PLEASE PRINT): Briana Garcia Intertek PSI

Sampler's Signature & Date: Briana Garcia 4/17/24

LAB USE ONLY	9. Sample ID and Description	10. Sampling Date	10. Sampling Time 24hr	11. Comp.	11. Grab	12. Matrix: Water	Soil	Sludge	Oil	Drinking Water	Air	Other	No. of Containers	Analyses/Methods: See Attached	See Attached	See Attached	See Attached	See Attached	18. REMARKS
01A	Effluent S-1	4/17/24	11:03		✓	✓							4	✓	✓	✓	✓		See Attached for testing parameters
02A	Comp 1 (0-4")	4/17/24	10:11	✓			✓						1					✓	
03A	Comp 2 (4-12")	4/17/24	10:31	✓			✓						1					✓	
04A	Comp 3 (12-18")	4/17/24	10:52	✓			✓						1					✓	

13. | 14. Containers* | P | P | P | P | 8oz
15. Preservatives** | C | C | S | C | C
16. PH-Lab Only

17.

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1 Briana Garcia	4/17/24	18:02	FEDEX		
2 FEDEX	4/18/24	10:12	Meg Clem	4/18/24	10:12
3					

21. KNOWN HAZARDS/COMMENTS

Temperature: 2.8 °C

Thermometer ID IR5

Intact (Y) or N Initials ME

*Containers: VOA - 40 ml vial; 4 oz/8 oz - glass wide mouth; A/G - Amber/Glass 1 Liter; P/O - Plastic/other

**Preservatives: C - Cool; OH - NaOH; H - HCl; T - $NA_2S_2O_3$; N - HNO_3; X - Other; S - H_2SO_4

METHOD OF SHIPMENT

BILL OF LADING/TRACKING #

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091

Samples will be disposed of after 30 days
A&B reserves the right to return samples

LAB USE ONLY SAMPLING ____ RENTAL ____ P/U ____ Supplies ____ Field Work ____

intertek

Intertek Professional Service Industries, Inc.
2020 N. Loop 499, Ste 302
Harlingen, TX 78550
Tel: +1 956 423 6825

July 8, 2019

Effluent and Soil Sampling for Palm Valley WWTP (Analyses /Methods)

- Chemical Biological Oxygen Demand (CBOD^5, SM 5210B)
- Total Suspended Solids (SM 2540D)
- Inorganic Anions – Sulfate, Nitrate and Chloride (EPA 300)
- Total Dissolved Solids (SM 2540C)
- Specific Conductance (SM 2510B)
- Residual Chlorine (EPA 330.5)
- Dissolved Oxygen (SM 45000-G)
- pH (SM 4500H B)
- Ammonia Nitrogen (SM 4500NH3D)
- Total Kjeldahl Nitrogen (TKN) (SM 4500NH3D)

Water Sample

O1AD

- Total Nitrogen (EPA 351.4/300)
- Total Potassium (SW-846 6010C)
- Total Kjeldahl Nitrogen (TKN) (EPA 351.4)
- Phosphorus (SW-846 6010C)
- Conductivity (ASTM D4940)

Soil Sample

02A
03A
04A

ORIGIN ID:HRLA (956) 423-6826
BRIANA GARCIA
PSI
2020 NORTH LOOP 499 SUITE 302

HARLINGEN, TX 78550
UNITED STATES US

SHIP DATE: 17APR24
ACTWGT: 15.00 LB
CAD: 5001462/INET4535

BILL THIRD PARTY

TO **ALISHA HUGHES**
A&B LABS
10100 EAST FREEWAY, STE 100

HOUSTON TX 77029
(713) 453-6060 REF:
INV:
PO: DEPT:

583J60FEC9AE3

FedEx Express

THU - 18 APR 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7760 0310 8886**

77029

XS HBYA

TX-US IAH

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Condition Checklist

A&B JobID : **24042182**	Date Received : **04/18/2024**	Time Received : **10:12AM**
Client Name : **Intertek - PSI**		
Temperature : **2.8°C**	Sample pH : **<2 NH3, TKN**	
Thermometer ID : **IR5**	pH Paper ID : **115062**	
Perservative :	Lot# :	

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**	X		
3.	**If yes, ice in cooler.**	X		
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☑ Soil ☑ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**	X		
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

Sample 01: Water. Sample 02-04: Soil. ~EV 4/18/2024

Brought by : FedEx

Received by : EValdez

Check in by/date : EValdez / 04/18/2024

ab-s005-1123

Corpus Christi Water Department

City of Corpus Christi
Water Utilities Laboratory
13101 Leopard Street
361-826-1200 Fax: 361-242-9131

Analytical Report

Client Info Intertek PSI
2020 N. Loop 499, Ste.302
Harlingen, TX 78550
956-423-5735

Phone:

EMAIL: briana.garcia@intertek.com

Report# /Lab ID#: AC31179 **Report Date:** 4/18/24
Sample Name: S-1
Date Received: 04/17/2024 **Time:** 13:45
Date Sampled: 04/17/2024 **Time:** 11:03

Parameter	Result	Unit	Flag	RL 5	Date/Time Analyzed	Method	Analyst	Analysis Comments
Fecal Coliform MPN	272.3	MPN			4/17/24 15:49	Colilert 18	FK/MS	

Sample Comments:

This analytical report is respectfully submitted by the Water Utilities Laboratory. The enclosed results reflect only the sample(s) identified above. The results have been carefully reviewed and, unless otherwise indicated, meet the NELAC requirements as described by the Water Utilities Lab's QA/QC program. No part of this report shall be reproduced or transmitted in any form or by any means without the written consent of the City of Corpus Christi-Water Utilities Lab.

Respectfully Submitted,

Technical Director (or designee)

1. Quality assurance data for the sample batch which included this sample.
2. Precision (PREC) is the absolute value of the relative percent difference between duplicate results.
3. Recovery (RECOV) is the percent of analyte recovered from a spiked sample.
4. Laboratory Control Sample (LCS) results are expressed as the percent recovery of analyte.
5. Reporting Limit (RL), typically at or above the Limit of Quantitation (LOQ) of the analytical method.
6. Data Qualifiers:

N=Analysis not performed as per client request. **H**=Sample exceeded holding time. **P**=Analysis is from an unpreserved sample. **J**=Value reported is less than the RL but greater than the MDL. **X**=MS/MSD recovery or duplicates analysis exceeded the acceptance limit or Standard failed. **LA**=Lab accident. **LE**=Lab error. **OA**=Outside the scope of the lab's NELAC accreditation. **U**=Unsuitable; sample turned turbid after incubation. **T**=Sample below temp requirement; not on ice. **EQ**=Equipment failure. **I**=Information on sample bottle and COC does not match. **S**=Slow to filter; sample contains floc and/or large amount of residue on filter. **O**=Analysis performed by an outside NELAC accredited lab; **O^**=Analysis flagged by outside laboratory. **Z**=Too many colonies present to provide a result (TNTC). **A**=Value reported is the mean of two or more determinations. **R**=Reagent water contamination suspected. **B**=Sample broken in transit. **NI**=Not analyzed due to interferences. **K**=BOD result estimated due to blank exceeding the allowable oxygen depletion. **D**=Sample dilution required for analysis/ quality control. **SC**=BOD/CBOD calculated using a seed correction factor not within acceptable range. **QB**=No QC data assigned to sample; sample result not affected. **EL**=Oxygen usage is less than 2mg/L for all dilutions analyzed. The reported value is an estimated less than value and is calculated for the dilution containing the greatest concentration of sample. **EG**=Less than 1mg/L DO remained for all dilutions analyzed. The reported value is an estimated greater than value and is calculated for the dilution containing the least concentration of sample. **E**= The data exceed the upper calibration limit; therefore the conecntration is reported as an estimate.

CHAIN OF CUSTODY RECORD

Client Name: Psi
Address: 3 Burwood Lane,
City: San Antonio State: TX Zip: 78216
Phone: (956)970-7489 Fax:

PWS ID (if applicable):

City of Corpus Christi

Water Utilities Laboratory
P.O. Box 9277
Corpus Christi, TX 78469
Ph: (361) 826-1200
Fax: (361) 242-9131

Sampler (PLEASE PRINT) Briana Garcia
briana.garcia@intertek.com

	Sample ID	Lab ID# (Lab Use Only)	Date Sampled	Time Sampled	Grab	Composite	Other	No. of Containers/ Preservative: H_2SO_4	HNO_3	Thio	None	Matrix: WW Influent	WW Effluent	Water	Other-Specify	Residual Chlorine: Total mg/L	Free mg/L	Analyze For: CBOD	BOD	TSS	TDS	Ammonia-N	TKN	Chloride	Sulfate	Phosphorus	Nitrate	Nitrite	Total Alkalinity	TOC	Fecal Coliform	Total Coliform	Enterococci	E. coli	Other*
1	S-1	AC31179	4/17/24	11:03	✓					✓			✓			N/A															✓				
2	S-1	AC31180	4/17/24	11:03	✓					✓			✓			N/A																	✓		
3																																			
4																																			
5																																			
6																																			

Relinquished By: Briana Garcia	Date: 4/17/24	Time: 1345	Special Instructions/Comments:
Received By:	Date: 4/17/24	Time: 1345	Other* -
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	***** For Laboratory Use Only *****
Received By:	Date:	Time:	Sample(s) on ice: YES NO — pH Strip Lot/ ID:
Relinquished By:	Date:	Time:	Receiving Temp (°C): 3.3 — pH < 2? YES NO Line(s) #:
Received By:	Date:	Time:	Corrected Temp (°C): 3.3 — Data Flag(s):
			Temp. Device ID: R

Candice Calhoun

From: Candice Calhoun
Sent: Thursday, July 31, 2025 3:12 PM
To: 'David Flinn'; 'Jason Mann'
Cc: Palm Valley Rosendo Flores
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Mr. Flinn,

I understand your frustration. I have forwarded this email thread over to my manager, Erwin Madrid. He stated he will speak with Deba, the permit writer supervisor, and his management team and would reach out to you regarding this.

Please let me know if you have any additional questions or concerns.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Thursday, July 31, 2025 3:02 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; 'Jason Mann' <jmann@thelawmann.com>
Cc: Palm Valley Rosendo Flores <rflores@palmvalleytx.com>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Ms. Calhoun

Clearly there was a discrepancy in the TCEQ letters regarding the expiration date. We certainly would have submitted earlier if we believed June 1, 2025 was the expiration date. We intend to protest this decision. Who at the TCEQ do we need to contact?

Thanks

David

David H. Flinn P.E.
Principal
Ferris, Flinn & Medina, LLC
(956)367-7552

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, July 31, 2025 2:56 PM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Palm Valley Rosendo Flores <rflores@palmvalleytx.com>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency
Importance: High

Good afternoon, Mr. Flinn,

My apologies for the delay in getting back to you, we had to get with legal regarding the expiration date for this permit. Our legal contact has confirmed that the expiration date for Permit No. WQ0010972002 was June 1, 2025. Unfortunately, we are unable to grant an extension on expiration dates. Per TCEQ policy, once a permit has expired, it cannot be renewed or amended and an application for a new permit is required if the applicant wishes to continue to operate. Unfortunately, an application for a new permit will need to be submitted for the City of Palm Valley; City of Palm Valley WWTP.

Please let me know if you have any additional questions.

Regards,

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ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

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---

From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Wednesday, July 30, 2025 7:48 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Palm Valley Rosendo Flores <rflores@palmvalleytx.com>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Ms. Calhoun

In light of the confusion of the expiration dates included in the TCEQ letters, we are requesting an extension to September 1, 2025 for the permit renewal.

Thank you for your consideration on this matter.

David H. Flinn P.E.
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(956)367-7552

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, July 29, 2025 3:08 PM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Palm Valley Rosendo Flores <rflores@palmvalleytx.com>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

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I have attached a copy of the current permit to this email for your convenience. Once I receive an update from Deba, the permit writer supervisor, I will reach back out to you to let you know!

Regards,

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Texas Commission on Environmental Quality
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Ms. Calhoun

It is our understanding that the permit expires on September1, 2025. Please see attached letter for TCEQ dated 7/22/2015. Let us know.

Thanks

David

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Principal
Ferris, Flinn & Medina, LLC
(956)367-7552

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, July 29, 2025 11:15 AM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Subject: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency
Importance: High

Good morning, Mr. Flinn,

The attached Notice of Deficiency (NOD) letter dated July 29, 2025, requests additional information needed to declare the application administratively complete. Please send complete response no later than August 12, 2025.

Also, please note, the NOD letter is addressed to Mr. Rosendo Flores, however, I could not send this email to him as an email address was not provided for him in the application.

Please let me know if you have any questions.

Regards,

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candice.calhoun@tceq.texas.gov

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Candice Calhoun

From: Candice Calhoun
Sent: Thursday, July 31, 2025 3:17 PM
To: Deba Dutta
Cc: Erwin Madrid; Jennifer Bowers; Matthew Udenenwu
Subject: FW: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon, Deba,

The applicant for WQ0010972002 states he intends to protest the decision that their permit had expired on June 1, 2025, and that they would need to apply for a new permit. He would like to speak with higher up regarding this situation.

Could you please assist with this? The email thread below contains Mr. Flinn's email and phone number as well as the email addresses of his associates. Please let me know if you need anything additional from me.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

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Sent: Tuesday, July 29, 2025 2:18 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Palm Valley Rosendo Flores <rflores@palmvalleytx.com>
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Ms. Calhoun

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Thanks

David

David H. Flinn P.E.
Principal
Ferris, Flinn & Medina, LLC
(956)367-7552

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Sent: Tuesday, July 29, 2025 11:15 AM
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Subject: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency
Importance: High

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Also, please note, the NOD letter is addressed to Mr. Rosendo Flores, however, I could not send this email to him as an email address was not provided for him in the application.

Please let me know if you have any questions.

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512-239-4312
candice.calhoun@tceq.texas.gov

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Candice Calhoun

From: Matthew Udenenwu
Sent: Tuesday, August 12, 2025 9:18 AM
To: Erwin Madrid
Cc: Deba Dutta; Candice Calhoun; Jennifer Bowers
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Thanks, Erwin. I'll let Mr. Flinn know.

Matthew

From: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Sent: Tuesday, August 12, 2025 9:09 AM
To: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Deba Dutta <Deba.Dutta@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Hi Matthew,

Please see my responses below:

If you need anything else, please let me know.

Thanks,
Erwin

From: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Sent: Monday, August 11, 2025 5:42 PM
To: Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Deba Dutta <Deba.Dutta@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

I discussed this matter with the applicant's consultant, David Flinn. Considering the circumstances, he asked:

- if TCEQ will maintain the new application to be same as the renewal they already submitted with just minimal changes to capture "new" or whether they'll need to submit additional documentation; - we can keep the application we received as a Renewal, however, the applicant will need to supplement the application with additional forms that are required for New Permit applications. We will issue an NOD listing the required additional information.
- whether the permit number will remain as above, with the only change being in the last number "2" becoming "3"; - Yes, permit # will remain the same we will just use the next number in sequence "3".
- whether the application fee will remain unchanged; - There will be an additional $35 required for the New Permit fee.

- how soon they'll be expected to submit any additional documents; and
- how long it will take to process the application as new. – Once ARP issued the NOD we will follow our normal NOD deadlines, however, if the applicant needs additional time we can definitely be flexible given the circumstances. Additionally, we will work to review any information provided as soon as possible to declare the application admin complete at the earliest possible since the current permit is expired.

Please provide clarification, so I can reach back out to him.

Matthew

From: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Sent: Monday, August 11, 2025 9:25 AM
To: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

I just talked with David H. Flinn P.E., the applicant's consultant. He is still not convinced, and liked to talk with hire ups. Do I provide him yours and Robert's contacts?

Thanks.
Deba

From: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Sent: Monday, August 11, 2025 8:21 AM
To: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Subject: FW: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Please go ahead and discuss with the applicant.

Matthew

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, August 11, 2025 7:26 AM
To: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: FW: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Good morning, Deba,

The applicant for WQ0010972002 reached out to me as he has not heard back regarding the confusion with the expiration date. He would like someone to reach out to him. I am not sure if that would be you or Matthew. His email and phone number are in the below email.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Saturday, August 9, 2025 1:42 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; 'Jason Mann' <jmann@thelawmann.com>
Cc: Palm Valley Rosendo Flores <rflores@palmvalleytx.com>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Ms. Calhoun

Have not heard from Your Manager to date. Please let me know who to follow up with to expedite completion of the renewal permit.

Thanks

David

David H. Flinn P.E.
Principal
Ferris, Flinn & Medina, LLC
(956)367-7552

Candice Calhoun

From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Tuesday, August 12, 2025 10:58 AM
To: Matthew Udenenwu; Palm Valley Rosendo Flores; 'Jason Mann'
Cc: Deba Dutta; Erwin Madrid; Jennifer Bowers; Candice Calhoun
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Matthew

Acknowledge Path forward. Proceed with NOD.

Thanks

David

David H. Flinn P.E.
Principal
Ferris, Flinn & Medina, LLC
(956)367-7552

From: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Sent: Tuesday, August 12, 2025 10:41 AM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Deba Dutta <Deba.Dutta@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Subject: FW: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Dear Mr. Flinn:

This is a follow up to our discussion yesterday, over the phone, concerning the above-referenced facility permit. As indicated, this permit expired this past June 1, 2025, consistent with the expiry date on the permit issued on October 20, 2015. There were errors in the date given in the cover letter that accompanied the permit, however the date on the face of the permit overrides. The permittee needs to submit a new application for the facility. We note that the permittee submitted a renewal application on July 25, 2025, which the agency is unable to process as such.

The required path forward is for a new application to be submitted. We can keep the application which we received as a Renewal and revert it into a New application; however, the applicant will need to supplement the application with additional forms that are required for new permit applications. We will issue a notice of deficiency (NOD) letter to the applicant listing the required additional information. We will limit the change to the permit number by replacing the last numeric in the permit number with the next number in sequence, i.e., from “2” to “3”. There will be an additional $35 required for the New Permit fee.

Once you acknowledge this path forward, our Applications Review and Processing team will issue the NOD and follow our normal NOD deadlines; however, if the applicant needs additional time, we can definitely be flexible given the circumstances. Additionally, we will work to review any information provided as soon as possible to declare the application admin complete at the earliest possible, since the current permit is expired. We will work to expedite the technical review as well.

Please let us know at your earliest.

Thanks.

Matthew Udenenwu, Manager
Wastewater Permitting Section
Water Quality Division
Texas Commission on Environmental Quality
512-239-6922

-

Candice Calhoun

From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Sunday, September 14, 2025 1:46 PM
To: Deba Dutta
Cc: Erwin Madrid; Jennifer Bowers; Candice Calhoun; Rendie Gonzales; Palm Valley Rosendo Flores; Sahil Hudda; Alan Barraza; Matthew Udenenwu
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency
Attachments: Fedex.Palm Valley Permit Application.pdf

From: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Sent: Friday, September 12, 2025 3:50 PM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; Rendie Gonzales <cityadmin@palmvalleytx.com>; Palm Valley Rosendo Flores <rflores@palmvalleytx.com>; Sahil Hudda <Sahil.Hudda@tceq.texas.gov>; Alan Barraza <Alan.Barraza@tceq.texas.gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Good afternoon, David.
Today is the last date for submitting the application. Have you submitted the application?

Thanks.
Deba

From: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Sent: Tuesday, August 19, 2025 7:14 AM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Deba Dutta <Deba.Dutta@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; Rendie Gonzales <cityadmin@palmvalleytx.com>; Palm Valley Rosendo Flores <rflores@palmvalleytx.com>; Sahil Hudda <Sahil.Hudda@tceq.texas.gov>; Alan Barraza <Alan.Barraza@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Extension is granted. Please let us know if you need further assistance as you complete the application. We expect to receive the new application by September 12, 2025, or sooner.

Matthew Udenenwu, Manager
Wastewater Permitting Section
Water Quality Division
Texas Commission on Environmental Quality
512-239-6922

From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Monday, August 18, 2025 5:13 PM

To: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>; Sahil Hudda <Sahil.Hudda@tceq.texas.gov>; Alan Barraza <Alan.Barraza@tceq.texas.gov>; Palm Valley Rosendo Flores <rflores@palmvalleytx.com>; Rendie Gonzales <cityadmin@palmvalleytx.com>
Cc: Deba Dutta <Deba.Dutta@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Matthew

Based on the comments received from your staff and the additional support documentation required for a "New" permit application, we are requesting an extension of 2 weeks from the August 29, 2025 deadline or till September 12, 2025 to submit a complete New Permit Application.

Thank you for your consideration on this matter.

David H. Flinn P.E.
Principal
Ferris, Flinn & Medina, LLC
(956)367-7552

From: Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Sent: Tuesday, August 12, 2025 10:41 AM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Deba Dutta <Deba.Dutta@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Subject: FW: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Dear Mr. Flinn:

This is a follow up to our discussion yesterday, over the phone, concerning the above-referenced facility permit. As indicated, this permit expired this past June 1, 2025, consistent with the expiry date on the permit issued on October 20, 2015. There were errors in the date given in the cover letter that accompanied the permit, however the date on the face of the permit overrides. The permittee needs to submit a new application for the facility. We note that the permittee submitted a renewal application on July 25, 2025, which the agency is unable to process as such.

The required path forward is for a new application to be submitted. We can keep the application which we received as a Renewal and revert it into a New application; however, the applicant will need to supplement the application with additional forms that are required for new permit applications. We will issue a notice of deficiency (NOD) letter to the applicant listing the required additional information. We will limit the change to the permit number by replacing the last numeric in the permit number with the next number in sequence, i.e., from "2" to "3". There will be an additional $35 required for the New Permit fee.

Once you acknowledge this path forward, our Applications Review and Processing team will issue the NOD and follow our normal NOD deadlines; however, if the applicant needs additional time, we can definitely be flexible given the circumstances. Additionally, we will work to review any information

provided as soon as possible to declare the application admin complete at the earliest possible, since the current permit is expired. We will work to expedite the technical review as well.

Please let us know at your earliest.

Thanks.

Matthew Udenenwu, Manager
Wastewater Permitting Section
Water Quality Division
Texas Commission on Environmental Quality
512-239-6922

-

Candice Calhoun

From: Julie Alejandro <j.alejandro@FerrisandFlinn.com>
Sent: Monday, September 15, 2025 9:05 AM
To: WQ-ARPTeam@tecq.texas.gov
Cc: David Flinn; Candice Calhoun
Subject: TLAP Permit Application No. WQ0010972003
Attachments: City of Palm Valley TCEQ TLAP Permit App. WQ0010972003.pdf

Good morning,

Attached please find Permit Application No. WQ0010972003 for the City of Palm Valley, Texas. Questions regarding this application may be addressed to the Engineer, Mr. David Flinn, PE, at d.flinn@ferrisandflinn.com.

Regards,

Julie Alejandro
Administrative Assistant
Ferris, Flinn & Medina, LLC
1405 N. Stuart Place Rd.
Harlingen, TX 78552
T: 956-364-2236
F: 956-364-1023
j.alejandro@ferrisandflinn.com

"What if today, we were just grateful for everything?"
~Charlie Brown

Candice Calhoun

From:	Candice Calhoun
Sent:	Monday, September 15, 2025 1:39 PM
To:	'David Flinn'
Cc:	Rendie Gonzales; Palm Valley Rosendo Flores
Subject:	RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency
Importance:	High

Good afternoon, David,

After reviewing the updated application that was submitted, there are a few additional items still needed. Please see below:

1. Core Data Form, Section III, Item 25 – The facility location provided is insufficient as our requirements for describing the facility location in the permit has changed. The description must include the distance in feet or miles from road intersections. Please provide an updated CDF to provide a revised facility location description. An example of a sufficient location description is " approximately 1,000 feet from the intersection of Main Street and William Street".

2. USGS Topographic Map – The USGS map should include the applicant's property boundary, site boundary, one-mile radius, disposal site location and any ponds. Please provide a revised map that includes this information.

3. Landowner Map – The landowner map provided is illegible. The landowner map should label the applicant's property boundary, show the location of the treatment facility within the applicant's property, the property boundaries of the effluent disposal sites, all effluent holding/storage/evaporation lagoons and the property boundaries of all landowners surrounding the disposal site. Please provide a landowner map that is legible and includes all required information.

4. Landowner Labels – The labels provided are insufficient. The labels should only include the affected landowner names and mailing addresses. The names and addresses must be typed according to US Postal Service Regulations for machine readability. Each letter in the name and address must be capitalized, contain no punctuation, and the appropriate two-character abbreviation must be used for the state. Please provide the mailing labels (in Avery 5160 format) in a Microsoft Word document.

5. Cros-reference Landowner List – The cross-reference landowner list was not provided. All landowners identified on the map must be clearly cross-referenced to a list of the landowner names and complete mailing addresses. The cross-reference list must be in consecutive numeric order (1, 2, 3). The complete list of affected landowners must be provided on a separate sheet. Do not use the property tax tract number system. Please provide the landowner list.

Please provide the complete response no later than September 19, 2025. If additional time is needed, a 30-day notice will be issued.

If you have any questions, please let me know.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: David Flinn <d.flinn@FerrisandFlinn.com>
Sent: Sunday, September 14, 2025 1:46 PM
To: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; Rendie Gonzales <cityadmin@palmvalleytx.com>; Palm Valley Rosendo Flores <rflores@palmvalleytx.com>; Sahil Hudda <Sahil.Hudda@tceq.texas.gov>; Alan Barraza <Alan.Barraza@tceq.texas.gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

---

From: Deba Dutta <Deba.Dutta@tceq.texas.gov>
Sent: Friday, September 12, 2025 3:50 PM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>; Jennifer Bowers <Jennifer.Bowers@Tceq.Texas.Gov>; Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; Rendie Gonzales <cityadmin@palmvalleytx.com>; Palm Valley Rosendo Flores <rflores@palmvalleytx.com>; Sahil Hudda <Sahil.Hudda@tceq.texas.gov>; Alan Barraza <Alan.Barraza@tceq.texas.gov>; Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010972002 (City of Palm Valley) - Notice of Deficiency

Good afternoon, David.

Candice Calhoun

From: Julie Alejandro <j.alejandro@FerrisandFlinn.com>
Sent: Friday, September 19, 2025 2:34 PM
To: Candice Calhoun
Cc: David Flinn
Subject: RE: City of Palm Valley TLAP WQ0010972003 Revisions
Attachments: CPV Landowner Address Labels Avery5160EasyPeel.doc; 246-032 Revised Core Data Form pg 2.pdf; HCC Inc Land Owner's Map 6of6.pdf; NE Land Owner;s Map 4of6.pdf; NW Land Owner's Map 3of6.pdf; Overall Land Owner's Map 1of6.pdf; SE Land Owner's Map 5of6.pdf; SW Land Owner's Map 2of6.pdf; USGS MAP 600 SCALE.PDF; USGS MAP 3000 SCALE.PDF; USGS MAP HARLINGEN.PDF; USGS MAP LA FERIA.PDF; 246-032 Flinn to C. Calhoun_TCEQ re City of Palm Valley TLAP App. Permit....pdf

Here you go. Please let me know if you have any issues opening any of the documents.

Thanks again,

Julie Alejandro
Admin. Asst.
Ferris, Flinn & Medina, LLC
1405 N. Stuart Place Rd.
Harlingen, TX 78552
T: 956-364-2236
F: 956-364-1023
j.alejandro@ferrisandflinn.com

From: Candice Calhoun [mailto:Candice.Calhoun@tceq.texas.gov]
Sent: Friday, September 19, 2025 2:29 PM
To: Julie Alejandro <j.alejandro@FerrisandFlinn.com>
Cc: David Flinn <d.flinn@FerrisandFlinn.com>
Subject: RE: City of Palm Valley TLAP WQ0010972003 Revisions

Julie,

Up to you, if the file is too big to send all as one, you are more than welcome to send as separate files in separate emails. 😊 Let me know if you have any issues and we can figure out another way!

Regards,

Candice Calhoun

From: Julie Alejandro <j.alejandro@FerrisandFlinn.com>
Sent: Tuesday, September 23, 2025 10:09 AM
To: Candice Calhoun
Cc: David Flinn
Subject: RE: City of Palm Valley TLAP WQ0010972003 Revisions
Attachments: 246-032 Flinn to Calhoun_TCEQ re 9.22.03 Revisions to WQ0010972003 Permit App.pdf; 246-032 Revised Core Data pg 2 9.22.25.pdf; 246-032-EXHIBIT 01_OVERALL KEY MAP.pdf; 246-032-EXHIBIT 02_SOUTHWEST QUADRANT.pdf; 246-032-EXHIBIT 05 _SOUTHEAST QUADRANT.pdf; CPV Landowner Address List.doc; CPV Landowner Address Labels Avery5160EasyPeel.doc

Good morning Ms. Candice,

Attached is a letter from Mr. Flinn along with the attachments. Let me know if you need the attachments sent differently.

Thank you,
Julie Alejandro
Admin. Asst.
Ferris, Flinn & Medina, LLC
1405 N. Stuart Place Rd.
Harlingen, TX 78552
T: 956-364-2236
F: 956-364-1023
j.alejandro@ferrisandflinn.com

From: Candice Calhoun [mailto:Candice.Calhoun@tceq.texas.gov]
Sent: Monday, September 22, 2025 2:23 PM
To: David Flinn <d.flinn@FerrisandFlinn.com>
Cc: Julie Alejandro <j.alejandro@FerrisandFlinn.com>
Subject: RE: City of Palm Valley TLAP WQ0010972003 Revisions

David,

I wanted to send an email regarding our phone call, just so it is in writing. My apologies again for overlooking the labeling on the USGS map. The map is sufficient as submitted, so please disregard item 2 in the below email.

Thank you for reaching out about this and please let me know if you have any additional questions/concerns.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Candice Calhoun
Sent: Monday, September 22, 2025 8:19 AM
To: Julie Alejandro <j.alejandro@FerrisandFlinn.com>
Cc: David Flinn <d.flinn@FerrisandFlinn.com>
Subject: RE: City of Palm Valley TLAP WQ0010972003 Revisions

Good morning, Julie,

Please see below for my comments.

1. CDF – The location description is still not sufficient. It should be one distance from the intersection, for example, "approximately 5,100 feet northeast of the intersection of Stuart Place Road and Interstate Highway 2", would be sufficient. Please provide a revised CDF.

2. The USGS map does not label the site boundaries, disposal site or any ponds (if applicable). Please ensure the entire USGS map is labeled as required.

3. Landowner Map: landowner number 32 is missing on the map. I see that number 22 is between 31 and 33, so I am thinking maybe that one was supposed to be 32? Also, please confirm who owns the land between landowners numbered as 60 and 61, as this was not numbered on the map.

4. The landowner list and labels should be provided on separate sheets, and the labels should not be numbered. Please provide revised landowner list and labels.

Regards,

FERRIS, FLINN & MEDINA, LLC
ENGINEERS SURVEYORS

September 19, 2025 246-032

Ms. Candice Calhoun
License & Permit Specialist
ARP Team, Water Quality Division
Texas Commission on Environmental Quality
PO Box 13087
Austin, TX 78711-3087

Re: City of Palm Valley, TX
Application for TLAP Permit No. WQ0010972003
(Renewal Permit No. WQ0010972002)

Ms. Calhoun,

Enclosed herewith please find a Revised Core Data Form; Revised Land Owner Map(s) and revised Land Owner Labels. The revisions are in response to your email dated, September 15, 2025, and include:

1. Core Data Form, page 2, with the facility location described in feet/miles from road intersection.
2. USGS topographic map(s) with 1 mile radius included. The 1" = 600' scale map includes the property boundary, disposal site location and the holding ponds.
3. Landowner map (6 sheets) with property boundary, WWTP location, effluent disposal site boundary, holding ponds and all landowners surrounding the disposal site.
4. Landowner labels only include the affected land owner names and mailing addresses in Microsoft Word Avery 5160 Template.
5. Landowner list provided has been cross referenced to the landowner map with labels numbered in consecutive order.

Please review and comment on the revisions provided.

Respectfully,
FERRIS, FLINN & MEDINA, LLC

David H. Flinn, PE
Vice President

cc: Rendie Gonzales
Rosendo Flores

FERRIS, FLINN & MEDINA, LLC
ENGINEERS SURVEYORS

September 22, 2025 246-032

Ms. Candice Calhoun
License & Permit Specialist
ARP Team, Water Quality Division
Texas Commission on Environmental Quality
PO Box 13087
Austin, TX 78711-3087

Re: City of Palm Valley, TX
Application for TLAP Permit No. WQ0010972003
(Renewal Permit No. WQ0010972002)

Ms. Calhoun,

Enclosed herewith please find a Revised Core Data Form; Revised Land Owner Map(s) and revised Land Owner Labels. The revisions are in response to your email dated, September 22, 2025, and include:

1. Core Data Form, page 2, with the facility location described in feet/miles from road intersection.
2. Landowner map (3 sheets) which includes Lot "22" revised to Lot "32". The parcel of land between Lots 60 and 61 is the existing drainage ditch right of way, owned by the City of Palm Valley.
3. Landowner list and labels are provided on separate sheets.

Please review and comment on the revisions provided.

Respectfully,
FERRIS, FLINN & MEDINA, LLC

David H. Flinn, PE
Vice President

cc: Rendie Gonzales
Rosendo Flores

3. SECTION III: Regulated Entity Information

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

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

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

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

City of Palm Valley Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City	Palm Valley	**State**	TX	**ZIP**	78552	**ZIP + 4**	
24. County	Cameron							

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

25. Description to Physical Location:	Approximately 5,300 ft northeast of the intersection of Stuart Place Road (FM 3196) and IH2.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Palm Valley			TX	78552	

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

27. Latitude (N) In Decimal:	26.2010		**28. Longitude (W) In Decimal:**	97.7542	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
26	12	3.6	97	45	15.1194

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)

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

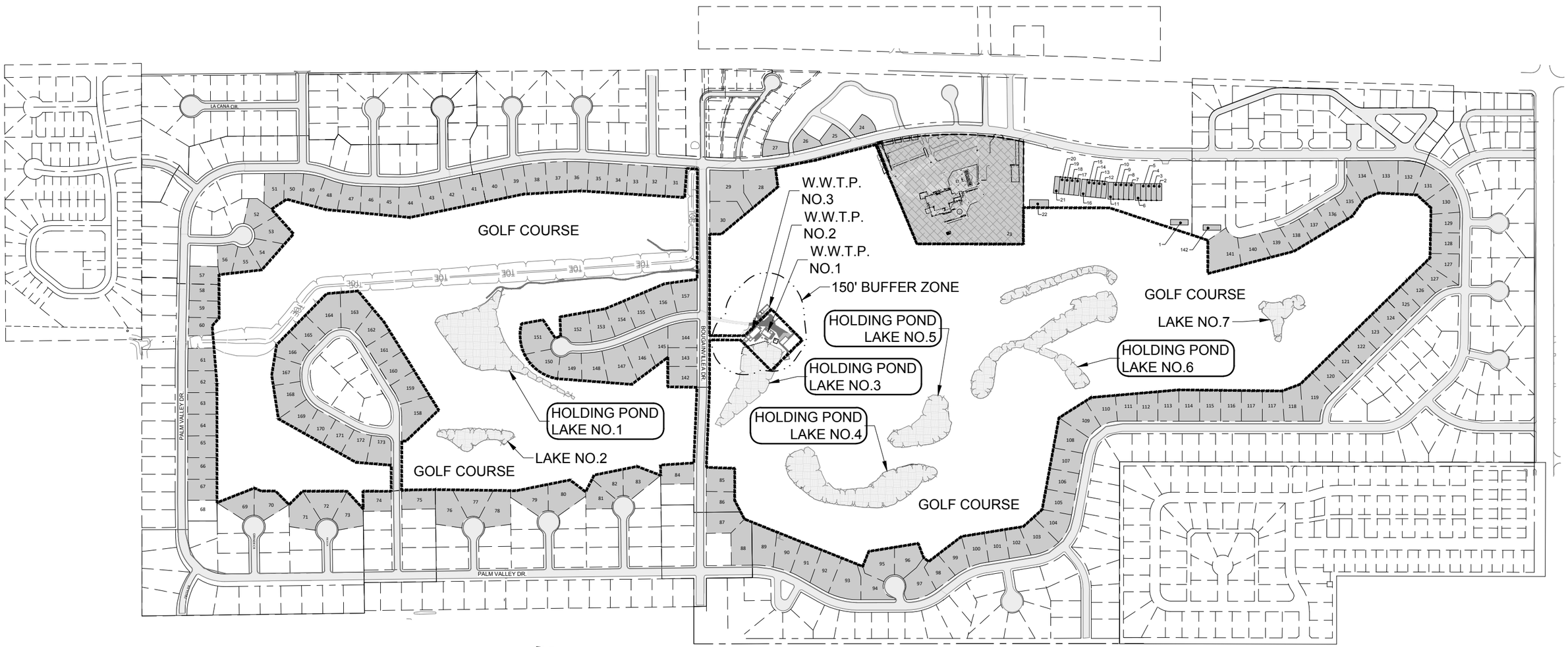
34. Mailing Address:	**1313 N. Stuart Place Rd.**							
	City	**Palm Valley**	**State**	**TX**	**ZIP**	**78552**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(956) 423-4040		**(956) 423-6324**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste

SCALE: N.T.S.



LEGEND

80	LOT LABEL #
>>>>>	WIND ROSE
----------	DISPOSAL BOUNDARY
	EXIST. LAKE
	EXIST. PAVEMENT

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP

OVERALL KEY MAP

(REVISED 09/22/2025)

FILE: 246-032	DRAWN BY: A.C.	SHEET 1 OF 6
DATE: 09/17/2025	SCALE: N.T.S.	

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 9/23/2025 9:50:59 AM, DWG To PDF.pc3

SCALE: 1" = 250'

STUART PLACE RD.

LA CANA CIR.

PALM VALLEY DR.

EL CIELO CR.

PALM VALLEY DR.

PAPAYA CR.

CARO CR.

BOUGAINVILLEA DR.

51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31

29 28 27 26 30

52 53 54 56 55 57 58 59 60 61 62 63 64 65

164 163 162 161 160 159 158 165 166 167 168 169 170 171 172 173

157 156 155 154 153 152 151 144 145 146 147 148 149 150 143 142

DISPOSAL BOUNDARY

GOLF COURSE

DISPOSAL BOUNDARY

DISPOSAL BOUNDARY

DISPOSAL BOUNDARY

GOLF COURSE

HOLDING POND LAKE NO.1 90,264 S.F.

LAKE NO.2 23,215 S.F.

W.W.T.P. NO.2

W.W.T.P. NO.3

W.W.T.P. NO.1

150' BUFFER ZONE

HOLDING POND LAKE NO.3 54,618 S.F.

LEGEND

80 LOT LABEL #

WIND ROSE

DISPOSAL BOUNDARY

EXIST. LAKE

EXIST. PAVEMENT

250' 0 250'

Scale: 1" = 250'

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP

SOUTHWEST QUADRANT

(REVISED 09/22/2025)

FILE: 246-032	DRAWN BY: A.C.	SHEET 2 OF 6
DATE: 09/17/2025	SCALE: 1" = 250'	

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 9/23/2025 9:50:35 AM, DWG To PDF.pc3

SCALE: 1" = 250'

DISPOSAL BOUNDARY

HOLDING POND LAKE NO.1 90,264 S.F.

LAKE NO.2 23,215 S.F.

GOLF COURSE

W.W.T.P. NO.3

W.W.T.P. NO.2

W.W.T.P. NO.1

150' BUFFER ZONE

HOLDING POND LAKE NO.3 54,618 S.F.

HOLDING POND LAKE NO.4 90,825 S.F.

PALM VALLEY DR.

BOUGAINVILLEA DR.

PAPAYA CR.

CARO CR.

GRAN GRANDE CR.

RICO CR.

EL JARDIN CR.

LA VISTA CR.

MANANA CR.

FIESTA DR.

LEGEND

80 LOT LABEL #

WIND ROSE

DISPOSAL BOUNDARY

EXIST. LAKE

EXIST. PAVEMENT

250' 0 250'

Scale: 1" = 250'

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP

SOUTHEAST QUADRANT

(REVISED 09/22/2025)

FILE: 246-032	DRAWN BY: A.C.	SHEET 5 OF 6
DATE: 09/17/2025	SCALE: 1" = 250'	

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SCALE: 1" = 150'

STUART PLACE RD.

PALM VALLEY DR.

PALM VALLEY DR.

24

25

26

27

28

20 19 18 17 15 14 13 12 10 9 8 7 5 4 3 2

21 16 11 6

22

DISPOSAL BOUNDARY

DISPOSAL BOUNDARY

HARLINGEN COUNTRY CLUB INC

23

PALM VALLEY ESTATES UNIT NO.10

1

142

141

GOLF COURSE

HOLDING POND
LAKE NO.6.
89,933 S.F.

LEGEND

80 LOT LABEL #

WIND ROSE

DISPOSAL BOUNDARY

EXIST. LAKE

EXIST. PAVEMENT

150' 0 150'

Scale: 1" = 150'

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

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FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP

HARLINGEN COUNTRY CLUB

FILE: 246-032	DRAWN BY: A.C.	SHEET 6 OF 6
DATE: 09/17/2025	SCALE: 1" = 150'	

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SCALE: 1" = 250'

STUART PLACE RD.

PALM VALLEY DR.

HARLINGEN COUNTRY CLUB INC

DISPOSAL BOUNDARY

DISPOSAL BOUNDARY

DISPOSAL BOUNDARY

DISPOSAL BOUNDARY

BRAZO CR.

GUAVA DR.

PALM VALLEY DR.

WILSON RD.

TANGERINE DR.

SEE SHEET 6 OF 6

HOLDING POND LAKE NO.6. 89,933 S.F.

HOLDING POND LAKE NO.5 41,532 S.F.

LAKE NO.7 20,090 S.F.

GOLF COURSE

GOLF COURSE

LEGEND

80 LOT LABEL #

WIND ROSE

DISPOSAL BOUNDARY

EXIST. LAKE

EXIST. PAVEMENT

250' 0 250'

Scale: 1" = 250'

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP

NORTHWEST QUADRANT

FILE: 246-032	DRAWN BY: A.C.	SHEET 3 OF 6
DATE: 09/17/2025	SCALE: 1" = 250'	

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SCALE: 1" = 250'

HOLDING POND
LAKE NO.6.
89,933 S.F.

HOLDING POND
LAKE NO.5
41,532 S.F.

HOLDING POND
LAKE NO.4
90,825 S.F.

LAKE NO.7
20,090 S.F.

GOLF COURSE

GOLF COURSE

DISPOSAL
BOUNDARY

DISPOSAL
BOUNDARY

PALM VALLEY DR.

PALM VALLEY DR.

GUAVA DR.

PALM VALLEY DR.

TANGERINE DR.

WILSON RD.

BELLINO DR

LEGEND

80 LOT LABEL #

WIND ROSE

DISPOSAL BOUNDARY

EXIST. LAKE

EXIST. PAVEMENT

250' 0 250'

Scale: 1" = 250'

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP
NORTHEAST QUADRANT

FILE: 246-032	DRAWN BY: A.C.	SHEET 4 OF 6
DATE: 09/17/2025	SCALE: 1" = 250'	

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TLAP PERMIT NO. WQ0010972003 NEW
(WQ0010972002 RENEWAL)

FOR

CITY OF PALM VALLEY, TX WWTP

Owner:

CITY OF PALM VALLEY

Application Submittal Date:
Renewal - July 23, 2025
New – September 12, 2025

Prepared by:

FERRIS, FLINN & MEDINA, LLC
Texas Board of Professional Engineers
Firm Registration No.F-897
Texas Board of Professional Land Surveyors
Firm Registration No.100370-00

1405 N. Stuart Place Road
Harlingen, Texas 78552
(956)364-2236
(956)364-1023

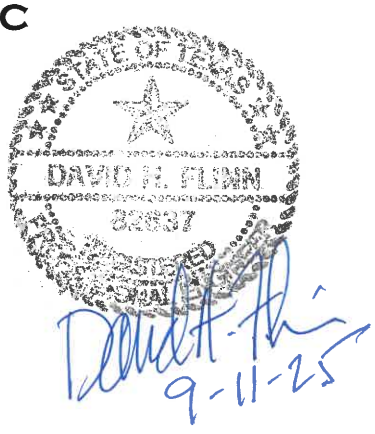


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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Palm Valley

PERMIT NUMBER (If new, leave blank): WQ0010972002

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

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

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 18963 (Ck 18842 $1,215 sent 7/28/2025)

Check/Money Order Amount: $35.00 (Balance)

Name Printed on Check: Ferris, Flinn & Medina, LLC

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. **For existing permits:**

Permit Number: WQ00 10972002

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

Expiration Date: June 1, 2025 (September 1, 2015 per TCEQ draft Letter)

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

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

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

City of Palm Valley

(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: 602842999

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

Prefix: Mr.

Last Name, First Name: Galvan, Michael

Title: Mayor

Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Flinn, David

Title: Vice President, City Consulting Engineer Credential: PE

Organization Name: Ferris, Flinn & Medina, LLC

Mailing Address: 1405 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 E-mail Address: d.flinn@ferrisandflinn.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: rflores@palmvalleytx.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: **rflores@palmvalleytx.com**

B. Prefix: Mr. Last Name, First Name: Flinn, David

Title: City Consulting Engineer Credential: PE

Organization Name: Ferris, Flinn & Medina, LLC

Mailing Address: 1405 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 E-mail Address: d.flinn@ferrisandflinn.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: **rflores@palmvalleytx.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: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: **rflores@palmvalleytx.com**

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Flinn, David

Title: City Consulting Engineer Credential: PE

Organization Name: Ferris, Flinn & Medina, LLC

Mailing Address: 1405 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-364-2236 E-mail Address: d.flinn@ferrisandflinn.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Flores, Rosendo

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 E-mail Address: **rflores@palmvalleytx.com**

D. Public Viewing Information

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

Public building name: City of Palm Valley, City Hall

Location within the building: Front Desk

Physical Address of Building: 1313 N. Stuart Place Rd.

City: Harlingen County: Cameron

Contact (Last Name, First Name): Flores, Rosendo

Phone No.: 956-423-8384 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

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

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

Attachment: Attachment B – Summary of Application in Plain Language

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: Attachment C – Public Involvement Plan

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102340445

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

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

City of Palm Valley WWTP

C. Owner of treatment facility: City of Palm Valley

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: Click to enter text.

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

Organization Name: City of Palm Valley

Mailing Address: 1313 N. Stuart Place Rd. City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-423-8384 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: Click to enter text.

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

Organization Name: Harlingen Country Club

Mailing Address: 5500 El Camino Real City, State, Zip Code: Harlingen, TX 78552

Phone No.: 956-412-4100 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: Attachment D – Effluent Agreement

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

From the WWTP through a 6" pipe and 8" pipe into a pond located within the Harlingen Country Club. Said pond is interconnected to four other ponds. The water in the 5 ponds blends with the effluent and is used to irrigate the Golf Course.

B. City nearest the disposal site: City of Palm Valley

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

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

From the WWTP through a 6" pipe and 8" pipe into a pond located within the Harlingen Country Club. Said pond is interconnected to four other ponds. The water in the 5 ponds blends with the effluent and is used to irrigate the Golf Course.

E. For **TLAPs,** please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Arroyo Colorado above Tidal Segment No. 2202

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.

n/a

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: Attachment A-Core Data Form, Attachment B-Summary of Application in Plain Language, Attachment C-Public Involvement Plan Form, Attachment D-Effluent Agreement & Attachment E-USGS Topographic Map(Full Size), 1"=3000'(11x17) & 1"=600' (11x17).

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010972003

Applicant: City of Palm Valley

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): Michael Galvan

Signatory title: Mayor

Signature: Michael Galvan Date: 09-11-2025

(Use blue ink)

Subscribed and Sworn to before me by the said Michael Galvan

on this 11th day of September, 20 25.

My commission expires on the 25th day of February, 20 28.

Rendie R. Gonzales

Notary Public

RENDIE R. GONZALES NOTARY PUBLIC STATE OF TEXAS ID 132374492 EXP. 02-26-2028

[SEAL]

Cameron

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.01

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. ☒ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

D. Provide the source of the landowners' names and mailing addresses: Cameron Co. Apprasial District

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

☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Summary of Application (in Plain Language) ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): .280

2-Hr Peak Flow (MGD): .633

Estimated construction start date: NA

Estimated waste disposal start date: NA

B. Interim II Phase

Design Flow (MGD): NA

2-Hr Peak Flow (MGD): NA

Estimated construction start date: NA

Estimated waste disposal start date: NA

C. Final Phase

Design Flow (MGD): .280

2-Hr Peak Flow (MGD): .633

Estimated construction start date: NA

Estimated waste disposal start date: NA

D. Current Operating Phase

Provide the startup date of the facility: August 2003

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Detailed Description Attached: See Attachment I – Detailed Description of Treatment Process

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)
See Attachment J - Design Features		

C. Process Flow Diagram

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

Attachment: See Attachment K – Process Flow Diagram

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

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

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

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

- Latitude: 26.2010
- Longitude: 97.7542

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: See Attachment L – Site Drawing

Attachment: See Attachment L – Site Drawing
Provide the name **and** a description of the area served by the treatment facility.

The City of Palm Valley, which consists of residential properties only and the Harlingen Country Club.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
		Choose an item.	
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: March 1, 2002

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.

As illustrated on Attachment L – Site Drawing, the 150' Buffer Zone is within the City property and the Golf Course of the Harlingen Country Club.

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.*

Item No. 17 Ground Water Monitoring. This was required for the offsite sludge disposal land owned by the City. The 2005 Permit included a minor modification to cease the disposal of sludge under Permit 10972-002 – Santa Rosa Beneficial Land Application Site. Sludge has been transported to the Reavis Farms (TCEQ No. 4463) registered Beneficial Land Application site ever since. (2005 letter & attachment A of 2005 Permit Application is included in Attachment N – Well Map & Information.

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.

N/A

3. *Grit disposal*

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

N/A

4. *Grease and decanted liquid disposal*

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

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

N/A

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

Click to enter text.

4. ***Existing coverage in individual permit***

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

☐ Yes ☒ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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
$CBOD_5$, mg/l	<2	NA	1	Grab	4/16/25 2:14 PM
Total Suspended Solids, mg/l	12	NA	1	Grab	4/16/25 2:14 PM
Ammonia Nitrogen, mg/l	<0.01	NA	1	Grab	"
Nitrate Nitrogen, mg/l	44.0	NA	1	Grab	"
Total Kjeldahl Nitrogen, mg/l	0.655	NA	1	Grab	"
Sulfate, mg/l	327	NA	1	Grab	"
Chloride, mg/l	452	NA	1	Grab	"
Total Phosphorus, mg/l	NA	NA	NA	NA	NA
pH, standard units	7.1	NA	1	Grab	"
Dissolved Oxygen*, mg/l	10.56	NA	1	Grab	"
Chlorine Residual, mg/l	0.48	NA	1	Grab	"
E.coli (CFU/100ml) freshwater	<1.0	NA	1	Grab	" *Fecal Coliform (MPN)
Entercocci (CFU/100ml) saltwater	58.2	NA	1	Grab	"
Total Dissolved Solids, mg/l	1490	NA	1	Grab	"
Electrical Conductivity, µmohs/cm, †	2580	NA	1	Grab	4/16/25 2:14 PM
Oil & Grease, mg/l	NA	NA	NA	Grab	NA
Alkalinity ($CaCO_3$)*, mg/l	NA	NA	NA	Grab	NA

*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 ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Rosendo Flores

Facility Operator's License Classification and Level: "C" Wastewater Treatment Operator

Facility Operator's License Number: WW0011004

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

☐ Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Use as Landfill Cover	Off-site Third-Party Handler or Preparer	Not Applicable		N/A: Transported to another facility for further processing	N/A: Trasporrted to another facility for further processing
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: Reavis Farms

TCEQ permit or registration number: 4861

County where disposal site is located: Hidalgo

E. Transportation method

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

Name of the hauler: Denali Water Solutions

Hauler registration number: 24795

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

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

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☒ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Rosendo Flores

Title: Wastewater Supervisor

Signature: Rosendo Flores

Date: 9-11-2025

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☒ Lake or Pond

Surface area, in acres: 8.41 (5 ponds)

Average depth of the entire water body, in feet: +/- 4.0

Average depth of water body within a 500-foot radius of discharge point, in feet: 5

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: WQ0010972002

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Turf Grass-Golf Course	139.5	112,300	Yes

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	2.07	8.28	Irregular	Compacted Clay
3	1.25	5.0	Irregular	Compacted Clay
4	2.08	8.34	Irregular	Compacted Clay
5	0.95	3.81	Irregular	Compacted Clay
6	2.06	8.25	Irregular	Compacted Clay
Ref. Effluent Disposal Site Boundary Map		All volumes are approximate (average depth 4.0' @ overflow structures & 2' freeboard)		

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

Attachment: Not Available. Ponds were constructed in the early 1970s

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

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

☐ Yes ☒ No

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

Click to enter text.

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

FEMA Firm Community Panel No. 4806-0125F

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

The Golf Course is surrounded by streets with curb & gutters. Surface runoff from areas around the Golf Course are captured by the streets and drain into the 5 golf course ponds. Golf Course Land is lower than the surrounding property (residential lots)

Section 5. Annual Cropping Plan (Instructions Page 67)

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

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

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

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

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

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

Table 3.0(3) – Water Well Data

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

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

Attachment: Attachment N

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: O

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: Click to enter text.

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

A. Soil map

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

Attachment: Attachment P – Soil Map

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: Attachment Q – Soil Analysis

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
RDX	0-13	0.63-2.0	0.15-0.20	
RM	0-14	0.20-0.63	0.11-0.18	
HU	0-12	0.63-2.0	0.09-0.17	

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
July 2023	0.084	2.0	3.55	7.08	1.5	139
August 2023	0.102	2.0	3.40	7.03	1.3	139
September 2023	0.102	2.0	4.05	7.05	1.6	139
October 2023	0.083	2.02	3.30	6.98	1.4	139
November 2023	0.087	2.04	3.56	7.07	1.3	139
December 2023	0.97	2.0	4.22	6.94	2.1	139
January 2024	0.089	2.87	5.89	6.71	2.2	139
February 2024	0.079	3.22	2.65	6.70	2.1	139
March 2024	0.095	2.57	6.3	6.75	2.1	139
April 2024	0.086	3.25	5.65	6.79	1.4	139
May 2024	0.099	2.99	3.74	6.93	1.2	139
June 2024	0.145	2.30	2.07	6.9	1.4	139
July 2024	0.112	2.26	6.63	7.01	1.3	139

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
August 2024	0.104	2.28	2.95	7.02	1.3	139.5
September 2024	01.26	2.09	5.65	6.81	1.6	139.5
October 2024	0.123	2.17	3.94	6.73	1.7	139.5
November 2024	0.104	2.49	4.55	6.81	1.2	139.5
December 2024	0.113	2.03	6.67	6.84	1.4	139.5
January 2025	0.108	2.22	4.0	7.04	1.8	139.5
February 2025	0.123	2.20	5.69	6.58	1.3	139.5
March 2025	0.198	2.10	6.52	6.61	1.8	139.5
April 2025	0.190	2.08	3.37	7.48	1.9	139.5
May 2025	0.106	2.0	5.06	7.23	2.2	139.5
June 2025	0.102	2.81	4.28	6.97	1.7	139.5

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

N/A

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

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

Area under irrigation, in acres: 139.5

Design application frequency:

hours/day 8 **And** days/week 7

Land grade (slope):

average percent (%): 0.5%

maximum percent (%): 2.0% - 5% @ Tee Boxes & Greens

Design application rate in acre-feet/acre/year: 3.6 (max)

Design total nitrogen loading rate, in lbs N/acre/year: 1.27 (@ 0.280 mgd)

Soil conductivity (mmhos/cm): 400 (12"-18")

Method of application: Golf Course Sprinkler System

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

Attachment: R

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: N/A

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

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

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

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

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

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: N/A

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

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

Slope length, in feet: Click to enter text.

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

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 72)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

The City of Palm Valley WWTP has been in operation since 1970. The final expansion was completed in 2003.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☐ No ☒ Not Applicable

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

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☒ No

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

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

Attachment: Click to enter text.

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

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

☒ Yes ☐ No

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

Attachment: S

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

Attachment: S

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

Attachment: N/A

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☒ Yes ☐ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): 0.280 mgd

Average Influent Organic Strength or BOD_5 Concentration in mg/l: 200

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): 467.04

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

From WWTP Design Calculations

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

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

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

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: 2.0 mg/l after 20 minutes detention time at peak flow

Dechlorination process: N/A

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: N/A WWTP is existing. The Final Phase was constructed in 2003.

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☒ Yes ☐ No

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

Click to enter text.

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

Firm 48061C0250F 2/16/2018

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

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

B. Wind rose

Attach a wind rose: See Attachment E - USGS Map, 1" = 600'

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: T

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

- Treatment units and processes dimensions and capacities

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

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

ATTACHMENT "A"
CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

1. SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)		
☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)		
☐ Renewal (*Core Data Form should be submitted with the renewal form*)		☐ Other
2. Customer Reference Number (*if issued*)	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** (*if issued*)
CN 602842999		**RN 102340445**

2. SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)		9/12/2025
☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*)		*If new Customer, enter previous Customer below:*	
City of Palm Valley			
7. TX SOS/CPA Filing Number NA	**8. TX State Tax ID** (11 digits) NA	**9. Federal Tax ID** (9 digits) NA	**10. DUNS Number** (*if applicable*) NA
11. Type of Customer: ☐ Corporation		☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship	☐ Other:
12. Number of Employees ☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher		**13. Independently Owned and Operated?** ☐ **Yes** ☒ **No**	
14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*			
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other: ☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant			
15. Mailing Address:	1313 N. Stuart Place Rd.		
City	Palm Valley	**State** TX	**ZIP** 78552 **ZIP + 4**
16. Country Mailing Information (*if outside USA*)		**17. E-Mail Address** (*if applicable*)	
18. Telephone Number (956) 423-4040	**19. Extension or Code**	**20. Fax Number** (*if applicable*) (956) 423-6324	

3. SECTION III: Regulated Entity Information

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

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

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

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

City of Palm Valley Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City	Palm Valley	**State**	TX	**ZIP**	78552	**ZIP + 4**	
24. County	Cameron							

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

25. Description to Physical Location:	Approximately 1000 ft east of Stuart Place Rd (FM 3196) and 5100 ft north of US Expressway 83.		
26. Nearest City		**State**	**Nearest ZIP Code**
Palm Valley		TX	78552

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

27. Latitude (N) In Decimal:	26.2010		**28. Longitude (W) In Decimal:**	97.7542	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
26	12	3.6	97	45	15.1194

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)

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

34. Mailing Address:	**1313 N. Stuart Place Rd.**							
	City	**Palm Valley**	**State**	**TX**	**ZIP**	**78552**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(956) 423-4040		**(956) 423-6324**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste

☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010972002			

SECTION IV: Preparer Information

40. Name:	David H. Flinn, PE, VP	**41. Title:**	City Consulting Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(956) 364-2236		(956) 364-1022	d.flinn@ferrisandflinn.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:	Ferris, Flinn & Medina, LLC	**Job Title:**	City Consulting Engineer
Name *(In Print):*	David H. Flinn, PE, VP	**Phone:**	(956) 364- **2236**
Signature:		**Date:**	9-11-25

ATTACHMENT "B"
SUMMARY OF APPLICATION IN PLAIN LANGUAGE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

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

City of Palm Valley (CN602842999) operates the Palm Valley Wastewater Treatment Plant (RN102340445), a wastewater collection and treatment facility. The facility is located at approximately 1000 ft east of Stuart Place Rd. (FM 3196) and 5100 ft north of Interstate Highway 2, in the City of Palm Valley, Camron County, Texas 78552. The City of Palm Valley is applying to the Texas Commission on Environmental Equality (TCEQ) for a new of Permit No. WQ0010972003 (Previous Permit No. WQ0010972002) to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 280,000 gallons per day (gpd) via surface irrigation of 139.5 acres of golf course land.

Discharges from the facility are expected to contain Biochemical Oxygen Demand (5-day), to meet the daily average effluent parameter of 20 mg/l and Total Suspended Solids to meet, the daily average effluent parameter of 20 mg/l. Domestic Wastewater is treated by an extended aeration WWTP.

ATTACHMENT "C"
TCEQ PUBLIC INVOLVEMENT PLAN FORM

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☒ New Permit or Registration Application
☐ New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

☒ Requires public notice,
☐ Considered to have significant public interest, **and**
☒ Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

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

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

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

- ☒ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

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

Section 4. Plain Language Summary

Provide a brief description of planned activities.

The existing 0.28 mgd Wastewater Treatment Plant has been in operation since the early 1970s. The City of Palm Valley is "Built-Out" & no additional phases are anticipated or proposed. The WWTP average effluent flow is 112,300 gpd or 40% of the plant concentration treatment capacity. The required effluent limits are 20mg/l BOD_5 & 20mg/l TSS. The average effluent concentrations are 2.42 mg/l BOD_5 & 4.23 mg/l TSS.

Section 5. Community and Demographic Information

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

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

Palm Valley

(City)

Cameron

(County)

(Census Tract)

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

☐ City ☐ County ☒ Census Tract

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

84.9%

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

$84,475

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

73.3%

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

English only or very well 93.8%
Spanish 91.1%

(e) Languages commonly spoken in area by percentage

English/Spanish

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☒ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

☐ Yes ☒ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ATTACHMENT "D"
EFFLUENT AGREEMENT

AGREEMENT

This Agreement between Harlingen Country Club, a Texas corporation, of the City of Palm Valley, Texas, herein called "Country Club" and The City of Palm Valley of Cameron County, Texas, herein called "Palm Valley" made this 16th day of June, 2015, witnesseth:

That whereas Country Club is the owner and operator of the Harlingen Country Club Golf Course consisting of approximately One Hundred and Fifty acres of land within Palm Valley more particularly described on the attached Exhibit A; and

WHEREAS, Palm Valley owns and operates a sanitary sewer system within and adjoining the Country Club property which system continuously produces effluent which, since the construction of its sewer plant, has been discharging into a pond or lake on the Golf Course and adjoining the sewer plant, which effluent has been used by the Country Club for irrigation purposes and care of the Golf Course and

WHEREAS, Palm Valley and Country Club desire to have the agreement between the parties providing for the continued use of said effluent for irrigation purposes reduced to writing;

NOW THEREFORE, it is hereby agreed that Palm Valley may continue to discharge all effluent produced by the operation of its sewer plant into ponds owned by Country Club and that Country Club will use such effluent for the purpose of irrigating its Golf Course, and

That this agreement will continue for one (1) year from date of Agreement and shall automatically renew for successive one(1) year term at the expiration of each term unless notice is given in writing at least one (1) year prior to the expiration of the applicable one (1) year term. Notwithstanding the foregoing, Palm Valley and Harlingen County Club shall mutually have the right to terminate this agreement, at anytime, by giving notice in writing and stating the date of termination, which shall not be less than one (1) year after the date of service of said notice.

EXECUTED this 16th day of June, 2015.

City of Palm Valley

By: _____

Its: Mayor

Harlingen Country Club

By: _____

Its: General Manager/COO

TI - 86.7873
TII - 52.7397

TRACT 1

Being 86.7873 acres, more or less, known as Farm Block "B" and more particularly described as follows:

Commencing at the northwest corner of Survey No. 299 and the northeast corner of Survey No. 140, said point lying in the right of way of Wilson Road.

Thence, S 0° 06' 58" E 661.73 feet along the east line of Survey No. 140 and the west line of Survey No. 299 to the point of beginning.

Thence, S 44° 24' 54" E 714.71 feet to a point for corner.

Thence, S 20° 49' 31" E 93.06 feet to a point for corner.

Thence, S 0° 27' 05" W 495.00 feet to a point for corner.

Thence, S 5° 06' 48" E 422.00 feet to a point for corner.



Thence, S 32° 28' 18" E 182.53 feet to a point for corner,

Thence, S 79° 47' 54" E 446.05 feet to a point for corner,

Thence, S 42° 20' 12" E 121.75 feet to a point for corner,

Thence, S 9° 17' 42" E 300.00 feet to a point for corner,

Thence, S 37° 31' 26" E 197.44 feet to a point for corner,

Thence, S 36° 10' 54" W 30.00 feet to a point for corner,

Thence, S 68° 56' 12" W 73.55 feet to a point for corner,

Thence, S 9° 17' 42" E 240.00 feet to a point for corner,

Thence, S 68° 21' 18" E 77.41 feet to a point for corner,

Thence, S 21° 38' 42" W 610.28 feet to a point for corner,

Thence, S 62° 09' 42" W 100.65 feet to a point for corner,

Thence, West 154.00 feet to a point for corner,

Thence, S 1° 52' 42" W 135.74 feet to a point for corner,

Thence, S 87° 49' 40" W 20.22 feet to a point for corner,

Thence, N 87° 51' 08" W 362.47 feet to a point for corner,

Thence, West 228.00 feet to a point for a corner,

Thence, North 147.99 feet to a point for corner,

Thence, N 45° 00' 00" E 208.71 feet to a point for corner,

Thence, N 45° 00' 00" W 208.71 feet to a point for corner,

Thence, S 45° 00' 00" W 208.71 feet to a point for corner,

Thence, S 45° 00' 00" E 180.42 feet to a point for corner,

Thence, South 168.00 feet to a point for corner,

Thence, West 485.86 feet to a point for corner,

Thence, North 55.43 feet to a point for corner,

Thence, N 40° 01' 48" W 352.95 feet to a point for corner,

Thence, S 82° 28' 58" W 91.51 feet to a point for corner,

Thence, N 11° 07' 25" W 196.26 feet to a point for corner,

Thence, N 14° 43' 48" W 297.13 feet to a point for corner,

Thence, N 67° 19' 07" E 514.77 feet to a point for corner,

Thence, North 510.00 feet to a point for corner,

Thence, West 175.00 feet to a point for corner,

Thence, North 413.00 feet to a point for corner,

Thence, N 18° 06' 24" E 495.48 feet to a point for corner,

Thence, East 160.00 feet to a point for corner,

Thence, N 14° 41' 18" W 425.92 feet to a point for corner,

Thence, N 31° 12' 06" W 326.62 feet to a point for corner,

Thence, N 54° 46' 47" W 100.00 feet to a point for corner,

Thence, N 23° 51' 16" W 73.27 feet to a point for corner,

Thence, N 2° 38' 30" E 185.14 feet to a point for corner,

Thence, N 42° 46' 48" E 91.28 feet to a point for corner,

Thence, S 89° 02' 12" E 238.03 feet to a point for corner,

Thence, S 44° 24' 54" E 152.89 feet to a point for corner, said point being the point of beginning,

Containing 86.7873 acres, more or less,

TRACT 2

Being 52.7397 acres, more or less, known as Farm Block "A" and more particularly described as follows:

Commencing at the northwest corner of Survey No. 299 and the northeast corner of Survey No. 140, both of which lie in the Wilson Road right of way,

Thence, S 0° 06' 58" E 32.56 feet along the east line of Survey No. 140 and the west line of Survey No. 299 to the south right-of-way line of Wilson Road,

Thence, N 89° 47' 45" E 872.66 feet along the south right-of-way line of Wilson Road to a point for corner,

Thence, S 0° 04' 45" E 2007.53 feet to a point for corner,

Thence, N 89° 50' 30" E 871.70 feet to a point for corner, said point lying in the right of way of Dilworth Road,

900 264

Thence, S 0° 10' 20" E 2038.85 feet to a point for corner,

Thence, S 89° 49' 40" W 867.81 feet to a point for corner, said point being the point of beginning.

Thence, S 3° 44' 52" E 160.00 feet to a point for corner,

Thence, N 89° 07' 00" E 50.00 feet to a point for corner,

Thence, S 20° 48' 00" W 120.22 feet to a point for corner,

Thence, S 11° 32' 18" E 210.00 feet to a point for corner,

Thence, S 63° 07' 50" E 90.00 feet to a point for corner,

Thence, S 37° 06' 12" W 93.95 feet to a point for corner,

Thence, S 11° 32' 18" E 261.92 feet to a point for corner,

Thence, S 0° 38' 54" W 530.03 feet to a point for corner,

Thence, S 8° 01' 34" E 20.34 feet to a point for corner,

Thence, West 233.84 feet to a point for corner,

Thence, North 20.14 feet to a point for corner,

Thence, N 43° 41' 06" W 215.72 feet to a point for corner,

Thence, S 58° 00' 04" W 496.39 feet to a point for corner,

Thence, S 49° 48' 54" W 193.72 feet to a point for corner,

Thence, S 4° 57' 12" E 150.56 feet to a point for corner,

Thence, S 46° 47' 36" E 342.98 feet to a point for corner,

Thence, S 81° 02' 48" E 147.80 feet to a point for corner,

Thence, N 81° 01' 42" E 211.59 feet to a point for corner,

Thence, N 29° 05' 30" E 425.72 feet to a point for corner,

Thence, N 4° 23' 54" E 169.53 feet to a point for corner,

Thence, East 125.00 feet to a point for corner,

Thence, South 135.00 feet to a point for corner,

Thence, N 89° 07' 00" E 85.00 feet to a point for corner,

Thence, S 47° 39' 00" W 115.00 feet to a point for corner,

Thence, South 212.46 feet to a point for corner.

Thence, S 45° 00' 00" E 91.92 feet to a point for corner.

Thence, S 45° 00' 00" W 91.92 feet to a point for corner.

Thence, South 69.38 feet to a point for a corner.

Thence, S 23° 54' 06" W 35.00 feet to a point for corner.

Thence, S 21° 30' 48" E 192.34 feet to a point for corner.

Thence, S 89° 49' 40" W 570.00 feet to a point for corner.

Thence, S 85° 11' 24" W 278.32 feet to a point for corner.

Thence, N 48° 35' 06" W 50.00 feet to a point for corner.

Thence, S 89° 49' 40" W 207.44 feet to a point for corner.

Thence, N 6° 35' 00" W 205.76 feet to a point for corner.

Thence, N 48° 35' 06" W 230.11 feet to a point for corner.

Thence, S 48° 04' 00" W 150.62 feet to a point for corner.

Thence, N 33° 41' 24" W 86.53 feet to a point for corner.

Thence, N 14° 36' 30" E 194.28 feet to a point for corner.

Thence, N 5° 15' 30" E 403.70 feet to a point for corner.

Thence, N 11° 42' 48" W 556.58 feet to a point for corner.

Thence, N 3° 21' 18" W 273.47 feet to a point for corner.

Thence, N 3° 33' 18" E 499.96 feet to a point for corner.

Thence, N 86° 26' 42" W 140.00 feet to a point for corner.

Thence, N 3° 33' 18" E 51.41 feet to a point for corner.

Thence, East 527.15 feet to a point for corner.

Thence, S 7° 51' 12" E 156.46 feet to a point for corner.

Thence, S 22° 57' 24" E 310.00 feet to a point for corner.

Thence, S 10° 11' 20" E 220.00 feet to a point for corner.

Thence, N 87° 48' 12" E 92.96 feet to a point for corner.

56

Thence, S 18° 03' 41" E 27.34 feet to a point for corner.

Thence, S 56° 04' 25" W 99.04 feet to a point for corner.

Thence, S 10° 11' 20" E 105.00 feet to a point of curve to the left.

900 266

Thence, along said curve to the left, having a radius of 212.00 feet and a central angle of 95° 53' 52", 354.84 feet to a point of tangency.

Thence, N 4° 16' 35" E 356.90 feet to a point for corner.

Thence, N 37° 01' 32" W 216.17 feet to a point for a corner.

Thence, East 141.66 feet to a point for corner.

Thence, N 0° 44' 54" E 130.00 feet to a point for corner.

Thence, S 87° 51' 08" E 362.61 feet to the point of beginning.

Containing 52.7397 acres, more or less.

ATTACHMENT "E"
USGS TOPOGRAPHIC MAP

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

The National Map US Topo

LA FERIA QUADRANGLE
TEXAS
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
1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south zone)

Imagery.....NAIP, April 2010
Roads.....©2006-2012 TomTom
Names.....GNIS, 2012
Hydrography.....National Hydrography Dataset, 2010
Contours.....National Elevation Dataset, 2008
Boundaries.....Census, IBWC, IBC, USGS, 1972 - 2012

MN
4° 27′
79 MILS
GN
0° 31′
9 MILS
UTM GRID AND 2013 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
PQ / PP
Grid Zone Designation
14R

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

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 0.6.7

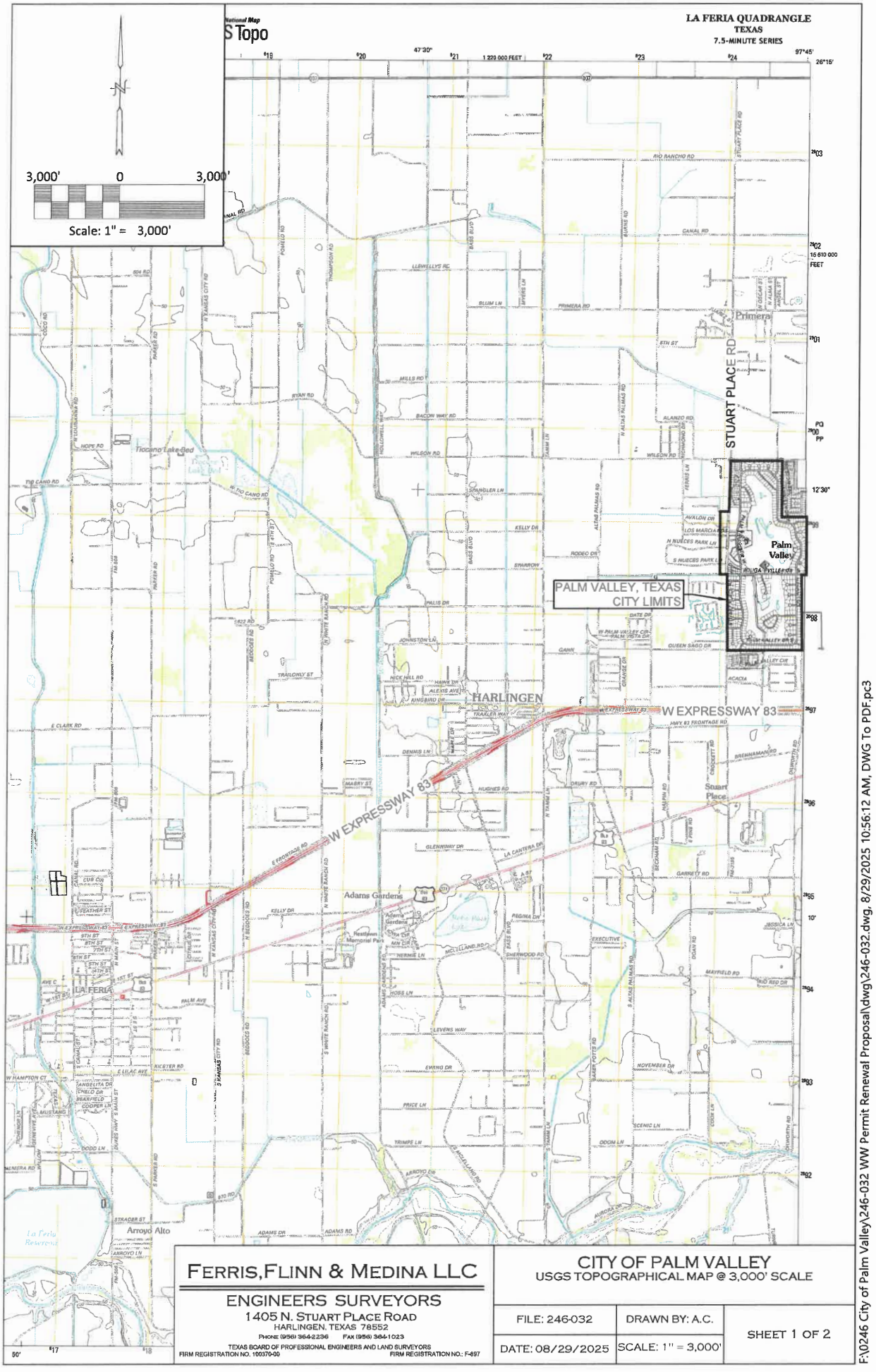
TEXAS
QUADRANGLE LOCATION

Edcouch	Santa Rosa	Willamar SW
Mercedes	La Feria	Harlingen
Progreso	Santa Maria	La Paloma

ADJOINING 7.5' QUADRANGLES

ROAD CLASSIFICATION
Interstate Route
US Route
Ramp
State Route
Local Road
4WD
Interstate Route
US Route
State Route

LA FERIA, TX
2013

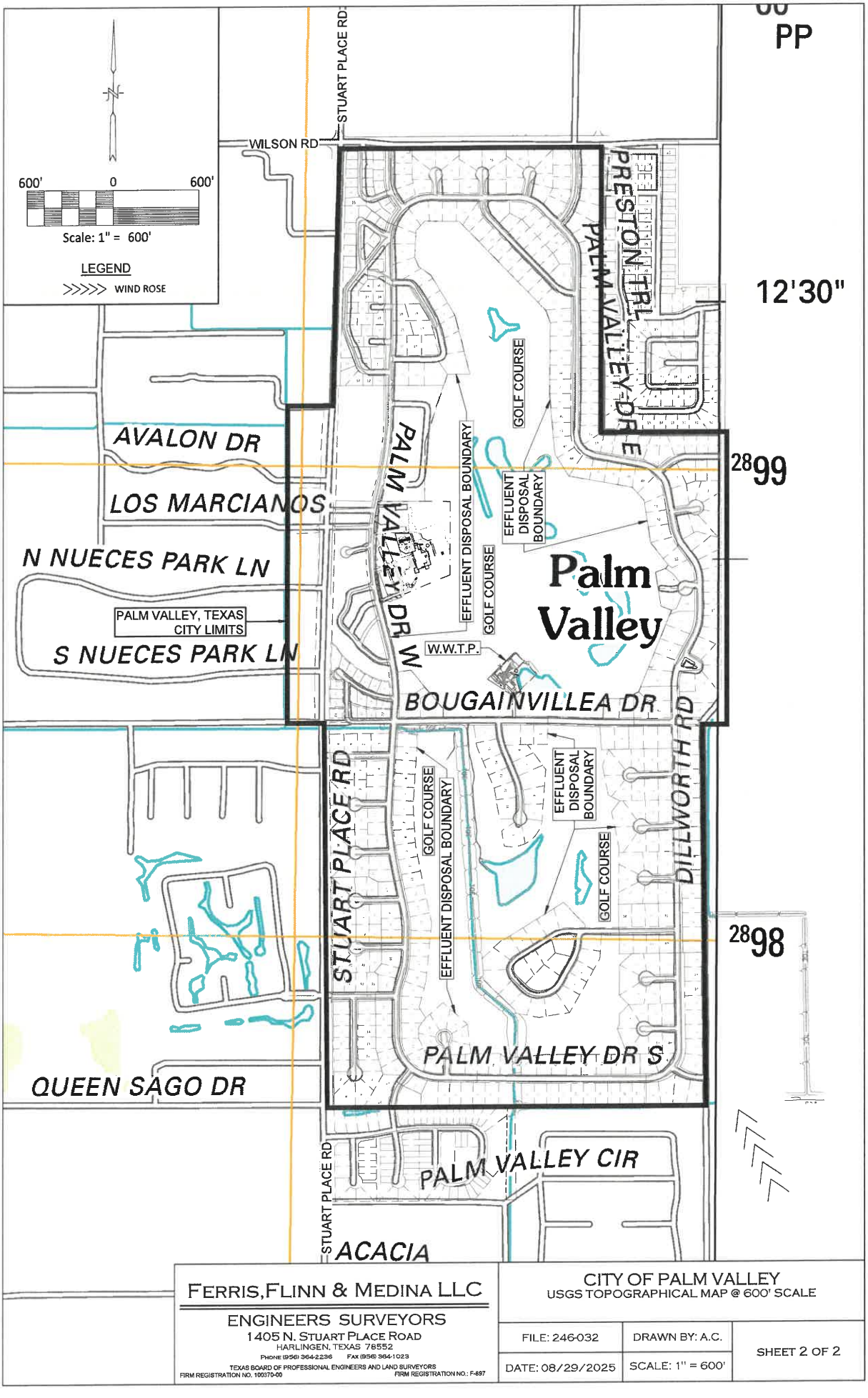


FERRIS, FLINN & MEDINA LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
PHONE (956) 364-2236 FAX (956) 364-1023
TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 10370-00 FIRM REGISTRATION NO.: F-697

CITY OF PALM VALLEY
USGS TOPOGRAPHICAL MAP @ 3,000' SCALE

FILE: 246-032	DRAWN BY: A.C.	SHEET 1 OF 2
DATE: 08/29/2025	SCALE: 1" = 3,000'	

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FERRIS, FLINN & MEDINA LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
PHONE (956) 364-2236 FAX (956) 364-1023
TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-697

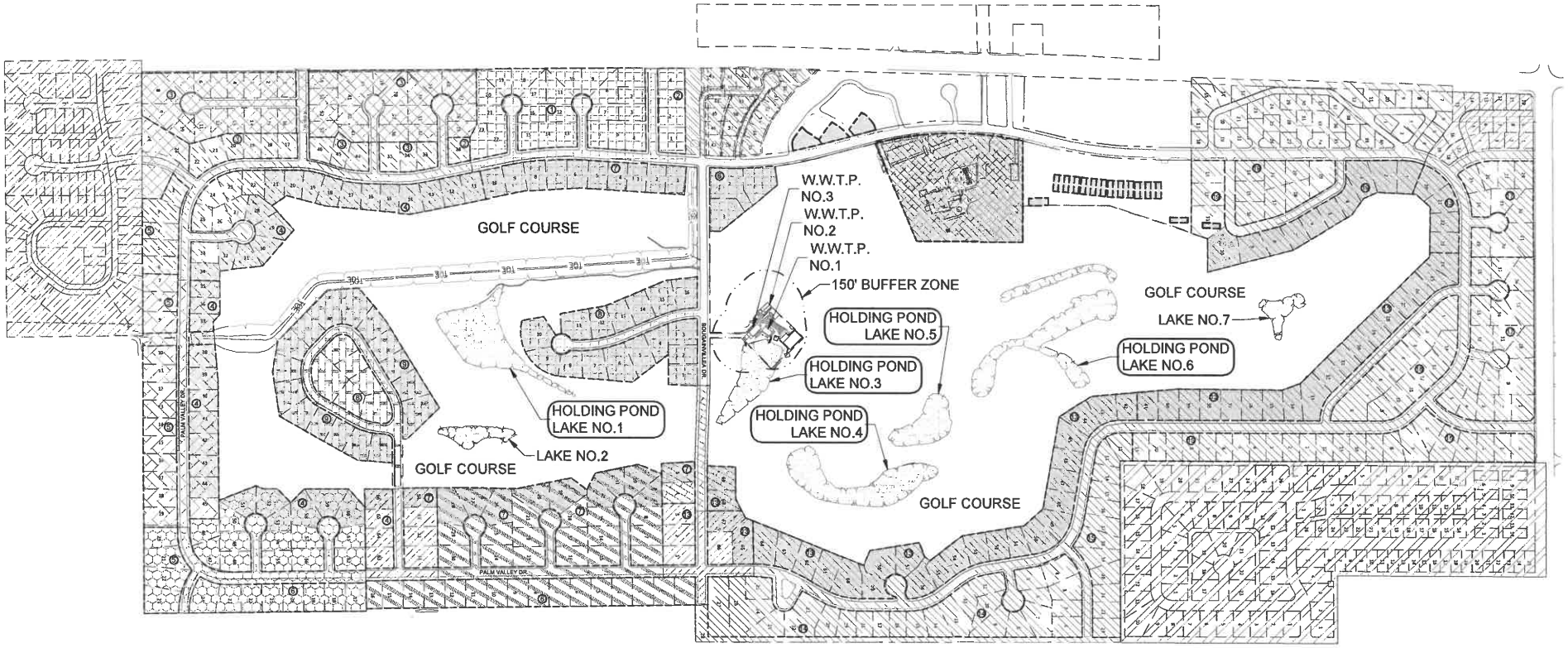
CITY OF PALM VALLEY
USGS TOPOGRAPHICAL MAP @ 600' SCALE

FILE: 246-032	DRAWN BY: A.C.	SHEET 2 OF 2
DATE: 08/29/2025	SCALE: 1" = 600'	

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ATTACHMENT "F"
AFFECTED LAND OWNERS MAP
WITH MAILING ADDRESSES

SCALE: N.T.S.



EFFLUENT HOLDING PONDS = LAKE NO. 1, 3, 4, 5, & 6

LEGEND

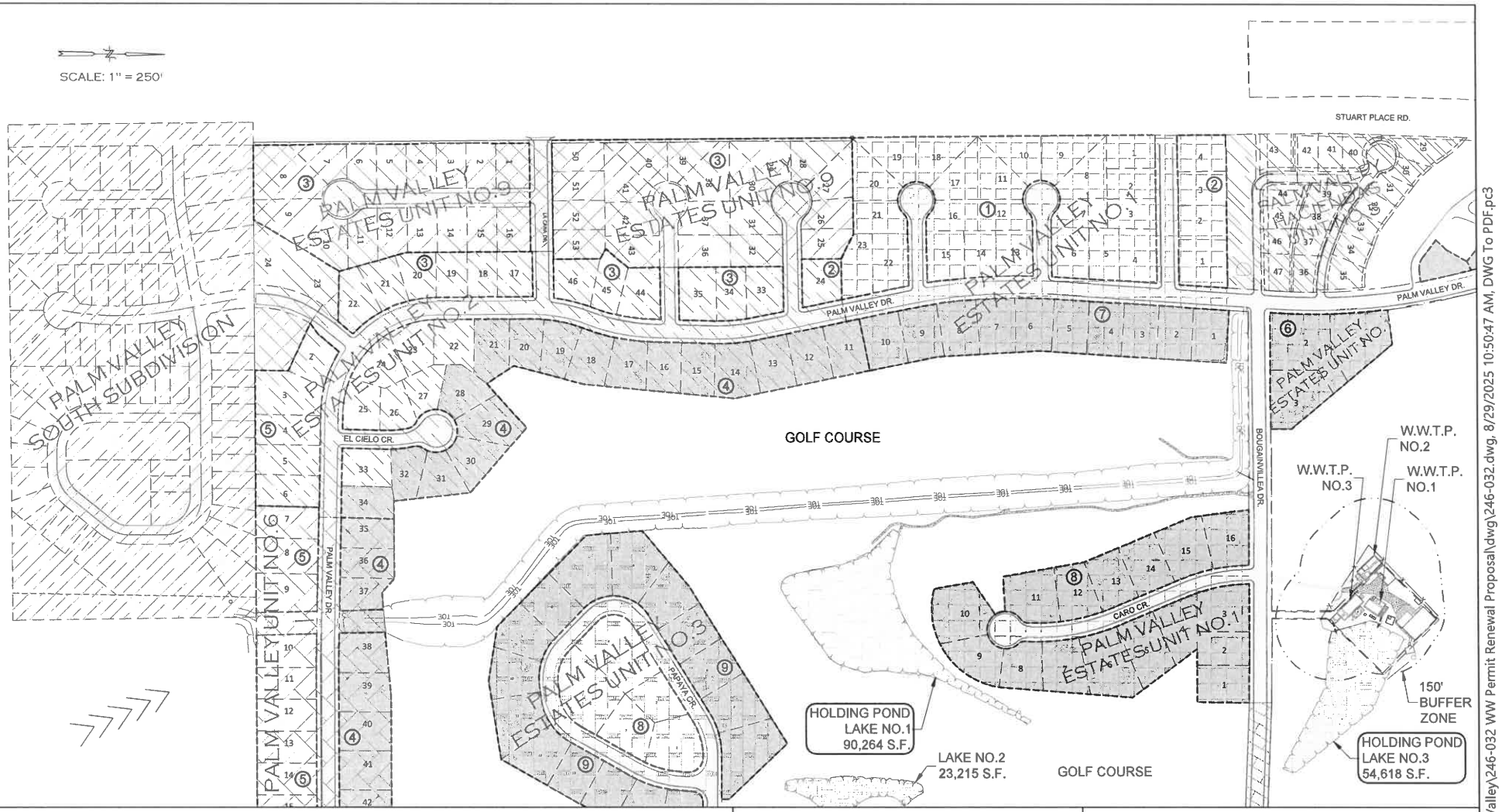
- PALM VALLEY ESTATES UNIT NO.1
- PALM VALLEY ESTATES UNIT NO.2
- PALM VALLEY ESTATES UNIT NO.3
- PALM VALLEY ESTATES UNIT NO.4
- PALM VALLEY ESTATES UNIT NO.5
- PALM VALLEY ESTATES UNIT NO.6
- PALM VALLEY ESTATES UNIT NO.7
- PALM VALLEY ESTATES UNIT NO.8
- PALM VALLEY ESTATES UNIT NO.9
- PALM VALLEY ESTATES UNIT NO.10
- PALM VALLEY HACIENDAS UNIT NO.5
- PALM VALLEY HACIENDAS UNIT NO.6
- PALM VALLEY HACIENDAS UNIT NO.7
- PALM VALLEY SOUTH SUBD.
- HARLINGEN COUNTRY CLUB INC.
- ③ BLOCK NUMBER
- EXIST. LAKE
- EXIST. PAVEMENT

FERRIS, FLINN & MEDINA LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
PHONE (956) 364-2236 FAX (956) 364-1023
TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY
AFFECTED LAND OWNER'S MAP
OVERALL KEY MAP

FILE: 246-032	DRAWN BY: A.C.	SHEET 1 OF 5
DATE: 08/29/2025	SCALE: N.T.S.	

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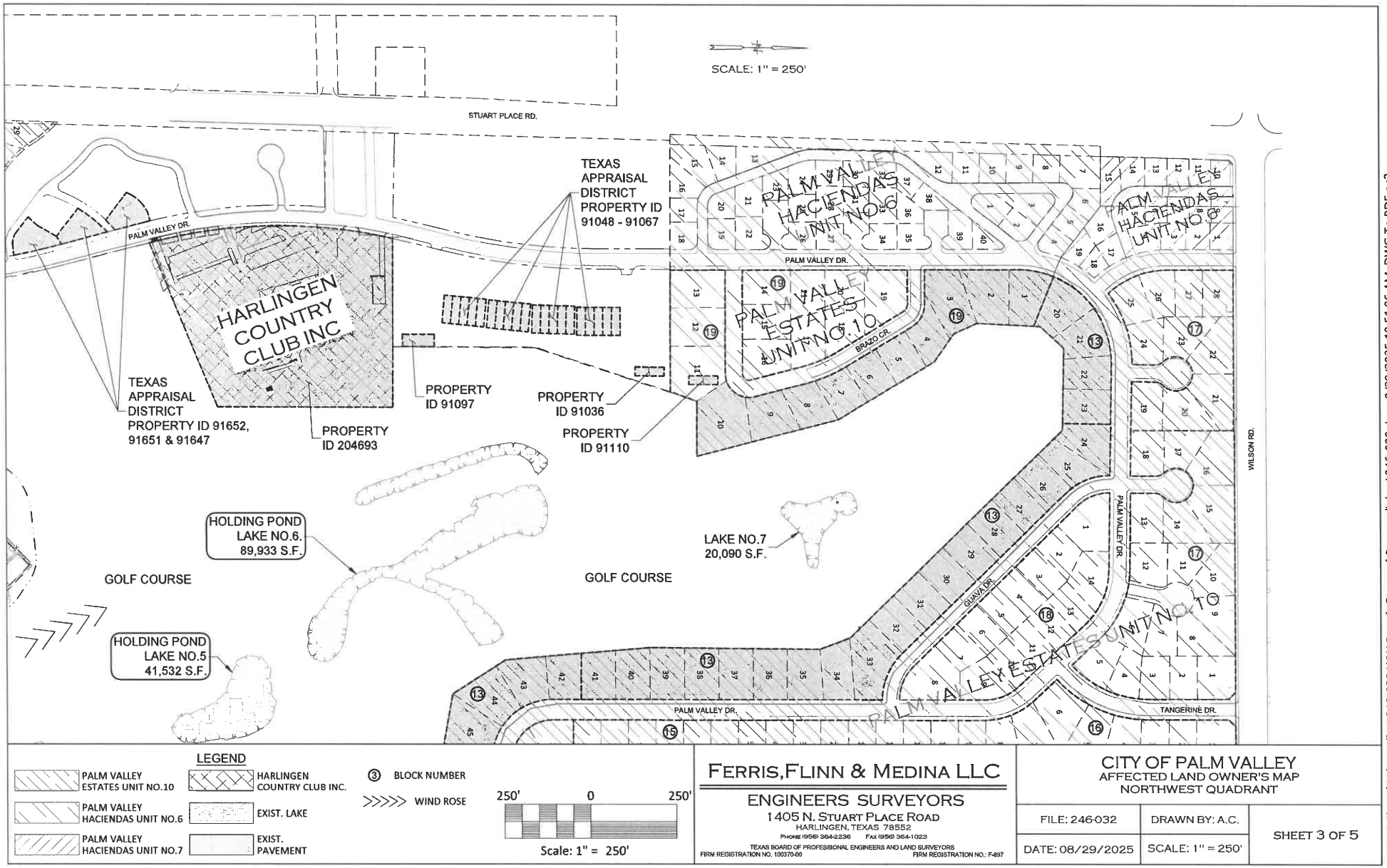


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FIRM REGISTRATION NO. 10370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY
AFFECTED LAND OWNER'S MAP
SOUTHWEST QUADRANT

FILE: 246-032	DRAWN BY: A.C.	SHEET 2 OF 5
DATE: 08/29/2025	SCALE: 1" = 250'	

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LEGEND

- PALM VALLEY ESTATES UNIT NO.10
- PALM VALLEY HACIENDAS UNIT NO.6
- PALM VALLEY HACIENDAS UNIT NO.7
- HARLINGEN COUNTRY CLUB INC.
- EXIST. LAKE
- EXIST. PAVEMENT
- (3) BLOCK NUMBER
- WIND ROSE

250' 0 250'

Scale: 1" = 250'

FERRIS, FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

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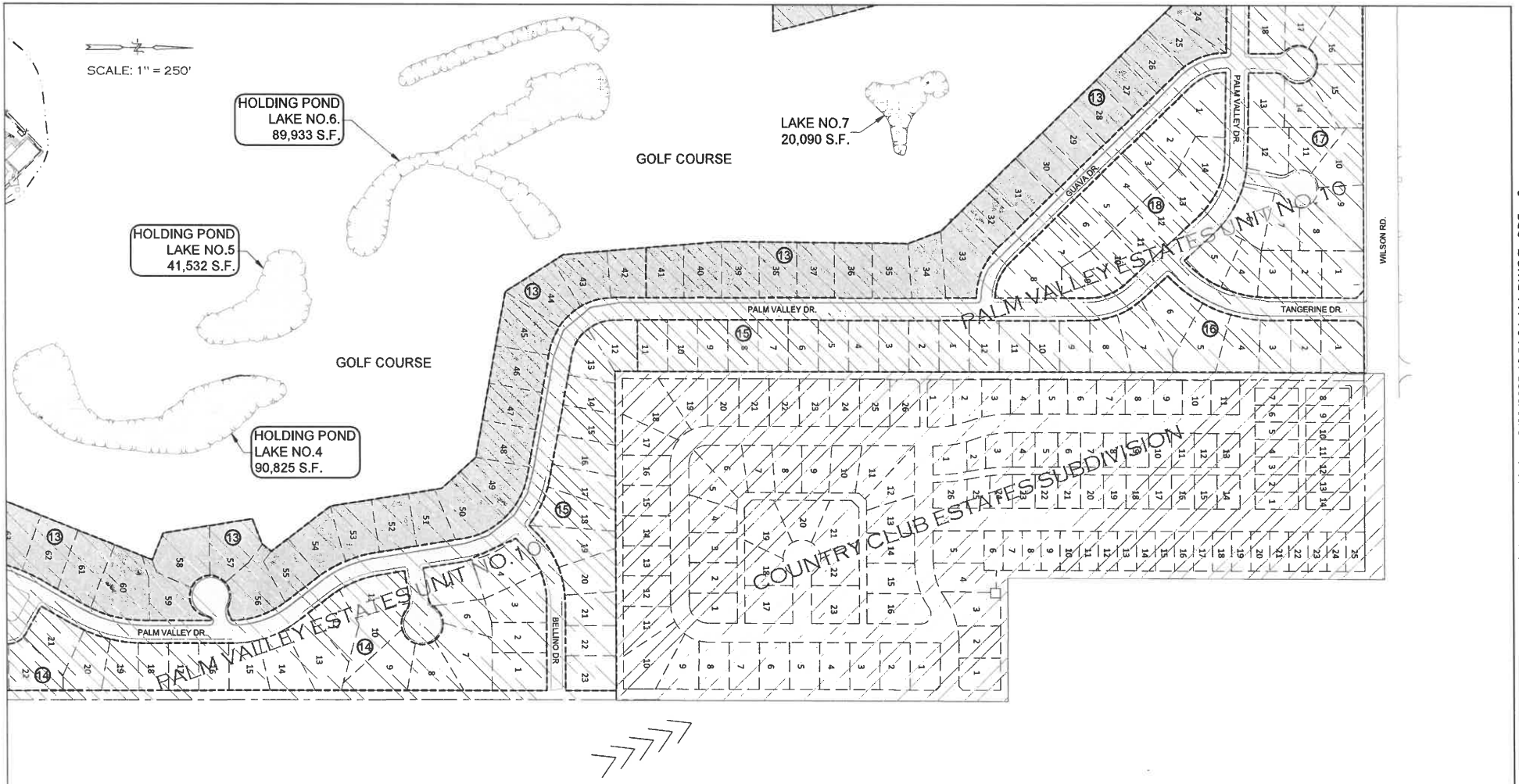
FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP NORTHWEST QUADRANT

FILE: 246-032	DRAWN BY: A.C.	SHEET 3 OF 5
DATE: 08/29/2025	SCALE: 1" = 250'	

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LEGEND

- PALM VALLEY ESTATES UNIT NO.10
- COUNTRY CLUB ESTATES SUBD.
- EXIST. LAKE
- EXIST. PAVEMENT
- (3) BLOCK NUMBER
- >>>>> WIND ROSE

250' 0 250'

Scale: 1" = 250'

FERRIS, FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

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FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

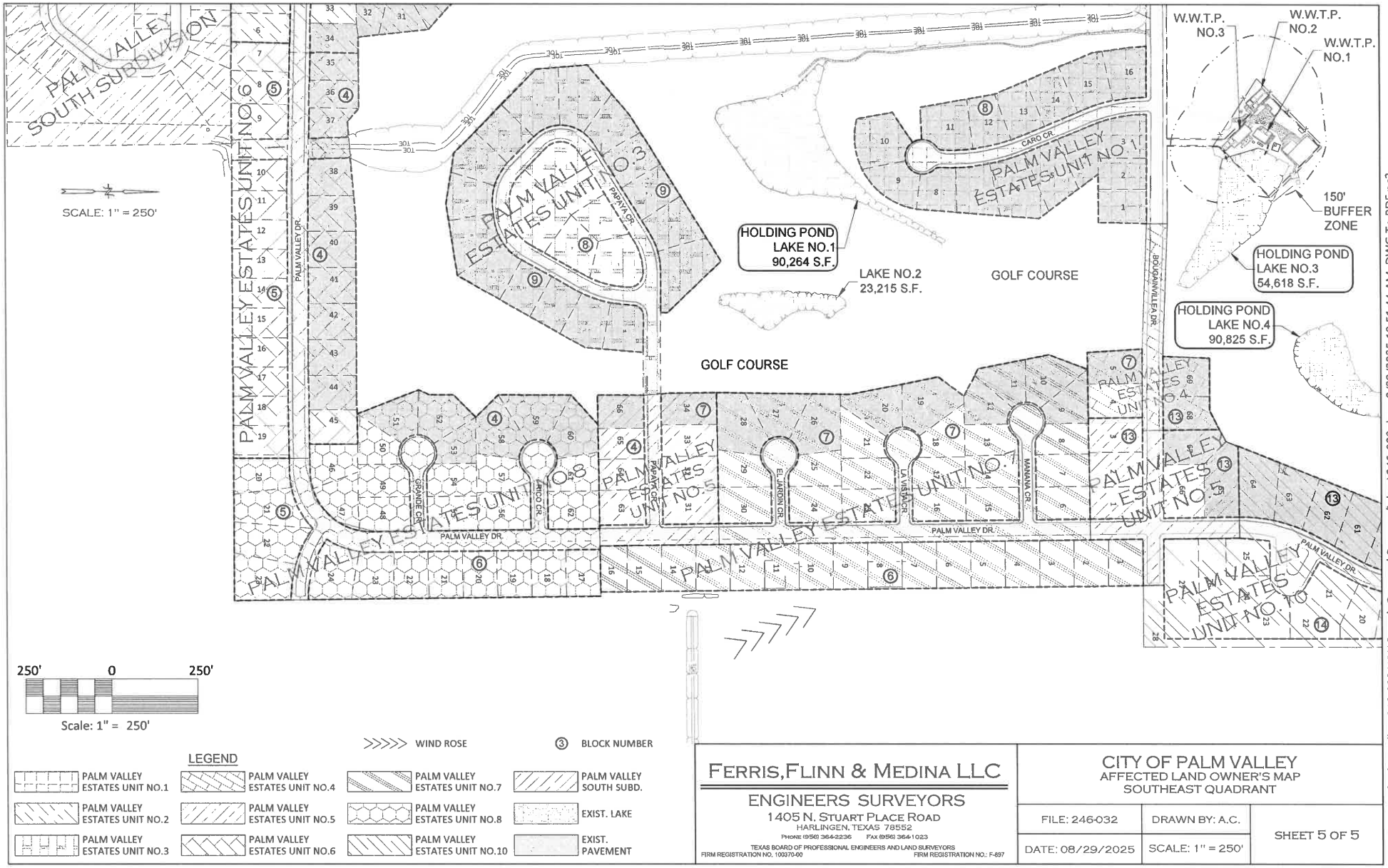
CITY OF PALM VALLEY

AFFECTED LAND OWNER'S MAP

NORTHEAST QUADRANT

FILE: 246-032	DRAWN BY: A.C.	SHEET 4 OF 5
DATE: 08/29/2025	SCALE: 1" = 250'	

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FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY
AFFECTED LAND OWNER'S MAP
SOUTHEAST QUADRANT

FILE: 246-032	DRAWN BY: A.C.	SHEET 5 OF 5
DATE: 08/29/2025	SCALE: 1" = 250'	

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PID: 91036
Palm Valley – Los Amigos Townhse Devl Co, Blk K, Unit 1, Bldg A
Matthews Charles Mark &
Legorreta Laura Estela
1449 Palm Valley Dr. E.
Harlingen, TX 78552

PID: 91048
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 13, Bldg C
Watson David
1050 Kenney Fort Xing Unit 40
Round Rock, TX 78665-2288

PID: 91049
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 14, Bldg C
Blando Juan M.
74 Ocean Park Torre 2 Apt 2213
Panama City, FL 32407

PID: 91050
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 15, Bldg C
Delagarza Guillermo Rey
15 Los Amigos Unit 15
Harlingen, TX 78552-9023

PID: 91051
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 16, Bldg C
Larsen Bruce & Aide Sarai Ibarra
16 Los Amigos Unit 15
Harlingen, TX 78552-9023

PID: 91052
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 17, Bldg C
Pena Pedro J
11025 W. Harrison Ave.
Harlingen, TX 78552

PID: 91053
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 18, Bldg D
Freindswood Holdings Corp.
30 Los Amigos
Harlingen, TX 78552-9024

PID: 91054
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 19, Bldg D
Cobos Jose & Cobos Wendy
158 S. Nueces Park Ln
Harlingen, TX 78552-6234

PID: 91055
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 20, Bldg D
Dato Marian L.
119 N. Nueces Park Ln
Harlingen, TX 78552-6234

PID: 91056
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 21, Bldg D
Phillips Mendiola Alberto &
Phillips Mendiola Carlos
21 Los Amigos Dr. Rt. 5
Harlingen, TX 78552

PID: 91057
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 22, Bldg D
Wetegrove Mary E.
22 Los Amigos
Harlingen, TX 78552

PID: 91058
Palm Valley – Los Amigos Townhse Harlingen Devl Co, Blk K, Unit 23, Bldg E
Nurdin Jonny
23 Los Amigos
Harlingen, TX 78552-9024

PID: 91060
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 25, Bldg E
Mesquias Richard Jr. &
Gilda Canales Mesquias
25 Los Amigos
Harlingen, TX 78552-9024

PID: 91061
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 26, Bldg E
Trevino Israel E.
120 T Bar M Dr.
New Braunfels, TX 78132-3734

PID: 91062
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 27, Bldg E
1305 N. Stuart Place Rd.
Harlingen, TX 78552-6230

PID: 91063
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 28, Bldg F
Holzman Holdings LLC
113 Creekbend Dr.
Brownsville, TX 78521-4325

PID: 91064
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 29, Bldg F
29 Los Amigos
Harlingen, TX 78552-9024

PID: 91065
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 30, Bldg F
30 Los Amigos
Harlingen, TX 78552-9024

PID: 91066
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 31, Bldg F
31 Los Amigos
Harlingen, TX 78552-9024

PID: 91067
Palm Valley – Los Amigos Townhse
Harlingen Devl Co, Blk K, Unit 32, Bldg F
32 Los Amigos
Harlingen, TX 78552

PID: 91097
Los Amigos Towne Houses Unit 62 Bldg M
Gorges Michael & Wright Gary G II
1275 N. Stuart Place Rd.
Harlingen, TX 78552-4290

PID: 91110
Palm Valley – Los Amigos II Lots 10-11-12
Blk 7 Unit 13 Bldg B
Beeson Kimberley Ann &
Fulca Michael Joseph
513 Terra Linda Ln
Ashland, MO 65010-9881

PID: 91182
Lot 1 Blk 7 Palm Valley Estates Subdivision
I
Luthen Ricky James
708 Palm Valley Dr. W.
Harlingen, TX 78552-8995

PID: 91183
Palm Valley – Palm Valley Ests 1 Lot 2 Blk 7
Hicks Michael Charles
700 Palm Valley Dr. W.
Harlingen, TX 78552-8995

PID: 91184
Lot 3 Blk 7 Palm Valley Estates
Subdivision 1
Mason Gary L
618 Palm Valley Dr. W.
Harlingen, TX 78552-8995

PID: 91185
Palm Valley – Palm Valley Ests 1 Lot 4 Blk 7
Larsen the Anne Vaughn Rev. Tr DTD
610 Palm Valley Dr. W.
Harlingen, TX 78552-8995

PID: 91186
Palm Valley – Palm Valley Ests 1 Lot 5 Blk 7
De Leon Maria Dolores
602 W. Palm Valley Dr.
Harlingen, TX 78552

PID: 91187
Palm Valley – Palm Valley Ests 1 Lot 6 Blk 7
Taylor Lisa L
5425 Palm Valley Dr. N.
Harlingen, TX 78552-9052

PID: 91188
Palm Valley – Palm Valley Ests 1 Lot 7 Blk 7
McGarry John T & Betty Jean
516 Palm Valley Dr. W.
Harlingen, TX 78552-8994

PID: 91189
Palm Valley – Palm Valley Ests 1 Lot 8 Blk 7
Saldana Marc P & Lori L
508 Palm Valley Dr. W.
Harlingen, TX 78552-8994

PID: 91190
Palm Valley – Palm Valley Ests 1 Lot 9 Blk 7
Fowler Lana & Ray Co. Trs of the Lana Fowler Trst DTD
500 Palm Valley Dr. W.
Harlingen, TX 78552-8994

PID: 91191
Palm Valley – Palm Valley Ests 1 Lot 10 Blk 7
Hinojosa Erika Yvette & Garza Roger Alan
416 Palm Valley Dr. W.
Harlingen, TX 78552-8993

PID: 91192
Palm Valley – Palm Valley Ests 1 Lot 1 Blk 8
Burd Loretta L.
5301 Bougainvillea Dr.
Harlingen, TX 78552-8970

PID: 91193
Palm Valley – Palm Valley Ests 1 Lot 2 Blk 8
Posada Edna G
1104 Yucca Ave.
McAllen, TX 78504-3525

PID: 91194
Palm Valley – Palm Valley Ests 1 Lot 3 Blk 8
Engler Bessie W.
742 Caro Cir.
Harlingen, TX 78552-8942

PID: 91195
Palm Valley – Palm Valley Ests 1 Lot 4 Blk 8
Tyler Ronald D. & Reba N. Tyler
728 Caro Cir.
Harlingen, TX 78552-8942

PID: 91196
Palm Valley – Palm Valley Ests 1 Lot 5 Blk 8
Tyler Ronald D. & Reba N. Tyler
728 Caro Cir.
Harlingen, TX 78552-8942

PID: 91197
Palm Valley – Palm Valley Ests 1 All Lot 6 PT30' Lot 7 Blk 8
Dah ilin Andrew P.
718 Caro Cir.
Harlingen, TX 78552-8942

PID: 91198
Palm Valley – Palm Valley Ests 1 PT Lots 7-8 Blk 8
Darcy John
708 Caro Cir.
Harlingen, TX 78552-8942

PID: 91199
Palm Valley – Palm Valley Ests 1 PT Lot 8 & All Lot 9 Blk 8
Whittake Norris Jim Jr. & Tresa G. Jackson
700 Caro Cir.
Harlingen, TX 78552-8942

PID: 91200
Palm Valley – Palm Valley Ests 1 Lot 10 Blk 8
Wallace Elvan D. & Carolyn
701 Caro Cir.
Harlingen, TX 78552-8942

PID: 91201
Palm Valley – Palm Valley Ests 1 Lot 11 Blk 8
Divin Glen & Candace K
709 Caro Cir.
Harlingen, TX 78552-8942

PID: 91202
Palm Valley – Palm Valley Ests 1 Lot 12 Blk 8
Newman John Geoffroy & Elzbieta Anna
717 Caro Cir.
Harlingen, TX 78552-8942

PID: 91203
Palm Valley – Palm Valley Ests 1 Lot 13 Blk 8
Jones Karen Lynn
7125 Caro Cir.
Harlingen, TX 78552

PID: 91204
Palm Valley – Palm Valley Ests 1 Lot 14 Blk 8
Barrera Aurora & Jose A Barrerea
733 Caro Cir.
Harlingen, TX 78552-8942

PID: 91205
Palm Valley – Palm Valley Ests 1 Lot 15 Blk 8
Alvear Eva
741 Caro Cir.
Harlingen, TX 78552-84

PID: 91206
Palm Valley – Palm Valley Ests 1 Lot 16 Blk 8
Baba Kosuke & Kang Chia Chen
5401 Bougainvillea Dr.
Harlingen, TX 78552-8922

PID: 91221
Palm Valley – Palm Valley Ests 2 Lot 11 Blk 4
Carter Andrew R & Beth Ann
408 Palm Valley Dr. West
Harlingen, TX 78552

PID: 91222
Palm Valley Estates Subd. Sec. 2 Lot 12 Blk 4
Bohart William A. & Anna
400 Palm Valley Dr. W.
Harlingen, TX 78552-8993

PID: 91223
Palm Valley Estates Sud. Sec. 2
Lot 13 Blk 4
Debolt Paul Whitton & Christine S.
318 Palm Valley Dr. W.
Harlingen, TX 78552-8992

PID: 91224
Palm Valley – Palm Valley Ests 2
Lot 14 Blk 4
Wade Jerome & Jessie
310 Palm Valley Dr. W.
Harlingen, TX 78552-8992

PID: 91225
Palm Valley – Palm Valley Ests 2
Lot 15 Blk 4
Baba Kosuke
5401 Bougainvillea Dr.
Harlingen, TX 78552-8922

PID: 91226
Palm Valley – Palm Valley Ests 2
Lot 16 Blk 4
Leimon Patrick
300 Palm Valley Dr. E.
Harlingen, TX 78552-8925

PID: 91227
Palm Valley – Palm Valley Ests 2
Lot 17 Blk 4
Brewer Nathan John & Madeline L
2005 E. Hickory St.
Greenwood, AR 72936-5914

PID: 91228
Palm Valley Estates Subd. Sec. 2
Lot 18 Blk 4
Lundquist Elizabeth R
210 Palm Valley Dr. W
Harlingen, TX 78552-8948

PID: 91229
Palm Valley Estates Subd. Sec. 2
Lot 19 Blk 4
Nathan Julia Irene & Loveless Joel Mathew
PO Box 2444
Harlingen, TX 78551-2444

PID: 91230
Palm Valley Estates Subd. Sec. 2
Lot 20 Blk 4
Lozano Antonio III & Summer
146 Palm Valley Dr. W.
Harlingen, TX 78552-8948

PID: 91231
Palm Valley Estates Subd. Sec. 2
Lot 21 Blk 4
Galvan Jaime Jr. & Nora Dely
138 Palm Valley Drive W.
Harlingen, TX 78552

PID: 91238
Palm Valley – Palm Valley Ests 2
Lot 28 Blk 4
Galvan Ernesto & Alma
141 El Cielo Cir.
Harlingen, TX 78552

PID: 91239
Palm Valley Ests 2 Lot 29 Blk 4
Saldana Taylor Marie &
Logan James Medley
146 El Cielo Cir.
Harlingen, TX 78552-8914

PID: 91240
Palm Valley – Palm Valley Ests 2
Lot 30 Blk 4
Miller Rosa Maria & Est. of David A. Miller
138 El Cielo Cir.
Harlingen, TX 78552-8914

PID: 91241
Palm Valley – Palm Valley Ests 2
Lot 31 Blk 4
Boyd Lora A.
130 El Cielo Cir.
Harlingen, TX 78552-8914

PID: 91242
Palm Valley – Palm Valley Ests 2
Lot 32 Blk 4
Hafiz Ana
122 El Cielo Cir.
Harlingen, TX 78552-8914

PID: 91244
Palm Valley – Palm Valley Ests 2
Lot 34 Blk 4
Franklin Donald A. & Judith A.
1205 Montpier Dr.
Franklin, TN 37069-4707

PID: 91257
Palm Valley – Palm Valley Ests 3
Lot 1 Blk 9
Richards Annie Laurie
5300 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91258
Lot 2 Blk 9 Palm Valley Estates Subdivision 3 (Vol. 22 Pg 41 MRCC)
De La Garza Guillermo Rey
5308 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91259
Palm Valley – Palm Valley Ests 3
Lot 3 Blk 9
Ermey Bobby D. & Paula S.
5316 Papaya Cir.
Harlingen, TX 78552

PID: 91260
Palm Valley – Palm Valley Ests 3
Lot 4 Blk 9
Childs Brian David &
Wilcox Adele Bernice
5324 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91261
Palm Valley – Palm Valley Ests 3
Lot 5 Blk 9
Reyes Amalia De Leon
5332 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91262
Palm Valley – Palm Valley Ests 3
Lot 6 Blk 9
Werley William E. Jr. & Lisa Ann
5340 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91263
Palm Valley – Palm Valley Ests 3
Lot 7 Blk 9
Salloum Ihsan & Clementina
5348 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91264
Palm Valley – Palm Valley Ests 3
Lot 8 Blk 9
Hinojosa Alejandro Est. of & ET UX
PO Box 1802
Harlingen, TX 78551-1802

PID: 91265
Palm Valley – Palm Valley Ests 3
Lot 9 Blk 9
Heffernan David J & Heffernan
Eileen Ann
5355 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91266
Palm Valley – Palm Valley Ests 3
Lot 10 Blk 9
Schlessinger Donald R. & Darling Barbara A
5347 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91267
Palm Valley – Palm Valley Ests 3
Lot 11 Blk 9
Newell David ET UX
5339 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91268
Palm Valley – Palm Valley Ests 3
Lot 12 Blk 9
Conly Kay AKA Katherine Risher Conly
5331 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91269
Palm Valley – Palm Valley Ests 3
Lot 13 Blk 9
Ross Lester & Magpulong Jessa May
5323 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91270
Palm Valley – Palm Valley Ests 3
Lot 14 Blk 9
Gresham Lester Whitfield
5315 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91271
Palm Valley – Palm Valley Ests 3
Lot 15 Blk 9
Downey Matthew K & Maria R Morin
5307 Papaya Cir.
Harlingen, TX 7855-8956

PID: 91272
Palm Valley – Palm Valley Ests 3
Lot 16 Blk 9
Perez Manuel Jr. & Perez Linda Joy
5301 Papaya Cir.
Harlingen, TX 78552-8956

PID: 91274
Lot 5 Blk 7 Palm Valley Estates Subdivision 4 (Vol 23 Pg 3 CCMR)
Flores Manuel Tr of the Manuel Flores Tr
5133 Bougainvillea Dr.
Harlingen, TX 78552-8944

PID: 91275
Lot 68 Blk 13 Palm Valley Estates Subdivision 4 (Vol 23 Pg 3 CCMR)
Causey Garnett T & Rayma B
5126 Bougainvillea
Harlingen, TX 78552-8943

PID: 91276
Lot 69 Blk 13 Palm Valley Estates Subdivision 4 (Vol 23 Pg 3 CCMR)
Vandeberg John L
5134 Bougainvillea Dr.
Harlingen, TX 78552-8943

PID: 91280
Palm Valley – Palm Valley Ests 5
Lot 66 Blk 4
Mondragon Maria L
5125 Papaya Cir.
Harlingen, TX 78552-8920

PID: 91282
Palm Valley – Palm Valley Ests 5
Lots PT of 32 All of 33 & 34 Blk 7
Gorges Matt F
5124 Papaya Cir.
Harlingen, TX 78552-8920

PID: 91288
Palm Valley – Palm Valley Ests 5
Lot 65 Blk 13
Viets Robert C & Mary Engelhardt Viets Revoc. Trust
809 Palm Valley Dr. E.
Harlingen, TX 78552-8949

PID: 91290
Palm Valley – Palm Valley Ests 5
Lot 67 Blk 13
Hance Denver & Terveen Courtney
5118 Bougainvillea Dr.
Harlingen, TX 78552-8943

PID: 91291
Palm Valley – Palm Valley Ests 6
Lot 35 Blk 4
Smith Collin & Courtney
5416 Palm Valley Dr. S.
Harlingen, TX 78552-9063

PID: 91292
Palm Valley – Palm Valley Ests 6
Lot 36 Blk 4
Koelper Edward Lee & Susan Beatrice
Trs the Keolper Fam
5408 Palm Valley Dr. S.
Harlingen, TX 78552-9063

PID: 91293
Palm Valley – Palm Valley Ests 6
Lot 37 Blk 4
Reyes Carrie Lynn & Reyes Ray
5400 Palm Valley Dr. S.
Harlingen, TX 78552-9063

PID: 91294
Palm Valley – Palm Valley Ests 6
Lot 38 Blk 4
Harrington Janet H. &
Robert J. Harrington
5324 Palm Valley Dr. S.
Harlingen, TX 78552-9062

PID: 91295
Palm Valley – Palm Valley Ests 6
Lot 39 Blk 4
Ziehe Eric & Dawn
5316 Palm Valley Dr. S.
Harlingen, TX 78552-9062

PID: 91296
Palm Valley – Palm Valley Ests 6
Lot 40 Blk 4
Vos Clinton H
No Mailing Address Listed

PID: 91297
Palm Valley – Palm Valley Ests 6
Lot 41 Blk 4
Jones Mark William &
Suzanne Morin
5226 Palm Valley Dr. S.
Harlingen, TX 78552-9062

PID: 91298
Palm Valley – Palm Valley Ests 6
Lot 42 Blk 4
Villarreal Joseph Michael & Sallie
5218 Palm Valley Dr. S.
Harlingen, TX 78552-9062

PID: 91299
Palm Valley – Palm Valley Ests 6
Lot 43 Blk 4
Ornelas Vicente
5210 Palm Valley Dr. S.
Harlingen, TX 78552-9062

PID: 91300
Palm Valley Unit 6 Lot 44 Blk 4 (V24 P13 CCMR)
Shaver Michael David &
Paola Saenz Shaver
5126 Palm Valley Dr. S.
Harlingen, TX 78552-9061

PID: 91335
Palm Valley – Palm Valley Ests 7
Lot 9 Blk 7
Gomez Jose Arnoldo & Garza Erica
5124 Manana Cir.
Harlingen, TX 78552-8919

PID: 91336
Palm Valley – Palm Valley Ests 7
Lot 10 Blk 7
Martinez Samuel Posada &
Rosa Marta Martinez
5132 Manana Cir.
Harlingen, TX 78552-8919

PID: 91337
Palm Valley – Palm Valley Ests 7
Lot 11 Blk 7
Champion Christopher N
5133 Manana Cir.
Harlingen, TX 78552-8919

PID: 91338
Palm Valley – Palm Valley Ests 7
Lot 12 Blk 7
Aquino Jeanno A &
Rebecca Chereen
5125 Manana Cir.
Harlingen, TX 78552-8919

PID: 91345
Palm Valley – Palm Valley Ests 7
Lot 19 Blk 7
Salazar Roberto & Kaylynn Lanae
5124 La Vista Cir.
Harlingen, TX 78552-8918

PID: 91346
Palm Valley – Palm Valley Ests 7
Lot 20 Blk 7
Zilko Stephen John Jr. &
Stolts Cynthia De Leon
5125 La Vista Cir.
Harlingen, TX 78552-8918

PID: 91352
Palm Valley – Palm Valley Ests 7
Lot 26 Blk 7
Shofner Charles L & Shofner Melissa K
Tr of the Shofner
3313 E. Harrison Ave.
Harlingen, TX 78550-2511

PID: 91353
Palm Valley – Palm Valley Ests 7
Lot 27 Blk 7
Holloway Patricia & Est of
Charles E. Holloway
5124 El Jardin Cir.
Harlingen, TX 78552-8917

PID: 91354
Palm Valley – Palm Valley Ests 7
Lot 28 Blk 7
Ramirez Leonel Jr. & Vanessa Nicole
5117 El Jardin Cir.
Harlingen, TX 78552-8917

PID: 91362
Palm Valley – Palm Valley Ests 8
Lot 51 Blk 4
Bradley James Trs of the Bradley Fam Tr
51025 Grande Cir.
Harlingen, TX 78552

PID: 91363
Palm Valley – Palm Valley Ests 8
Lot 52 Blk 4
Tyler Ronald Jr. & Tyler Carla
5124 Grande Cir.
Harlingen, TX 78552-8915

PID: 91364
Palm Valley Estates Section 8 Lot 53 Blk 4
Tyler Ronald Dale Jr. & Tyler Carla
5124 Grande Cir.
Harlingen, TX 78552-8915

PID: 91370
Palm Valley – Palm Valley Ests 8
Lot 58 Blk 4
Mason Thomas George II &
Cox Keith Bradley
5117 Rico Cir.
Harlingen, TX 78552-8916

PID: 91371
Palm Valley – Palm Valley Ests 8
Lot 59 Blk 4
Maldonado Juan A &
Priscilla F.
5125 Rico Cir.
Harlingen, TX 78552-8916

PID: 91372
Palm Valley – Palm Valley Ests 8
Lot 60 Blk 4
Dalzell the Robert Mifflin & Mary
Frances Dalzell Rev Liv Trst Agmt
5116 Rico Cir.
Harlingen, TX 78552-8916

PID: 91428
Palm Valley – Palm Valley Ests 10
Lot 20 Blk 13
Tozzo Howard John Jr.
Martha L Callaway
1824 Palm Valley Dr. W.
Harlingen, TX 78552-9033

PID: 91429
Palm Valley – Palm Valley Ests 10
Lot 21 Blk 13
Wilde Glenn & Julie
11828 FM 492
Lyford, TX 78569

PID: 91430
Palm Valley – Palm Valley Ests 10
Lot 22 Blk 13
Sanchez Manuela R.
5517 Palm Valley Dr. N.
Harlingen, TX 78552-9011

PID: 91431
Palm Valley – Palm Valley Ests 10
Pt Lot 23 Blk 13
Baker Russel F. & Sophia
5509 Palm Valley Dr. N.
Harlingen, TX 78552-9011

PID: 91433
Palm Valley – Palm Valley Ests 10
Lot 24 & Lot 25 Blk 13
Taylor Lisa L & Easley Dennis Earl
5425 Palm Valley Dr. N.
Palm Valley, TX 78552-9052

PID: 91436
Palm Valley – Palm Valley Ests 10
Lot 26 Blk 13
5409 Guava LLC
3225 McLeod Dr.
Las Vegas, NV 89121-2257

PID: 91437
Palm Valley – Palm Valley Ests 10
Lot 27 Blk 13
MCF Homes LLC
4355 Taos Rd.
Dallas, TX 75209-2825

PID: 91438
Palm Valley – Palm Valley Ests 10
Lot 28 Blk 13
TRPTDP LP
1033 Apache Dr.
De Leon, TX 76444-2622

PID: 91439
Palm Valley – Palm Valley Ests 10
Lot 29 Blk 13
Ortiz Daniel & Soraida
5309 Guava Dr.
Harlingen, TX 78552-8959

PID: 91440
Palm Valley – Palm Valley Ests 10
Lot 30 Blk 13
Garric Yvess Jean Marie & Nicole
5301 Guava
Harlingen, TX 78552

PID: 91441
Palm Valley – Palm Valley Ests 10
Lot 31 Blk 13
Cross Cheryl & Cross Thomas Eugene
5217 Guava Dr.
Harlingen, TX 78552-8984

PID: 91442
Palm Valley – Palm Valley Ests 10
Lot 32 Blk 13
Gonzalez Marylou & Trevino Amelia
PO Box 1422
Kingsville, TX 78364-1422

PID: 91443
Palm Valley – Palm Valley Ests 10
Lot 33 Blk 13
Ellis Gary G & Deborah Ellis
1625 Palm Valley Dr. E.
Harlingen, TX 78552-9007

PID: 91444
Palm Valley – Palm Valley Ests 10
Lot 34 Blk 13
Burkholder 1995 Management Tr
Jack C & Elsa N Ramirez de Burkholder Trs
1617 Palm Valley Dr. E.
Harlingen, TX 78552

PID: 91445
Palm Valley – Palm Valley Ests 10
Lots 35 & 36 Blk 13
Carpenter Michael Boyd Trustee
Of the MB Carpenter Rev. Tr.
1601 Palm Valley Dr. E.
Harlingen, TX 78552-9028

PID: 91447
Palm Valley – Palm Valley Ests 10
Lot 37 Blk 13
Baker Annette T
1525 Palm Valley Dr. E.
Harlingen, TX 78552-9028

PID: 91448
Palm Valley – Palm Valley Ests 10
Lot 38 Blk 13
Matz Alisa
24583 N. Dilworth Rd.
Harlingen, TX 78552-2438

PID: 91449
Palm Valley – Palm Valley Ests 10
Lot 39 Blk 13
Cherry Joe Frank &
Ruth Sosa Gonzalez-Cherry
1509 Palm Valley Dr. E.
Harlingen, TX 78552-9028

PID: 91450
Palm Valley – Palm Valley Ests 10
Lot 40 Blk 13
Vazquez Carmen Beatriz
1501 Palm Valley Dr. E.
Harlingen, TX 78552-9028

PID: 91451
Palm Valley – Palm Valley Ests 10
Lot 41 Blk 13
Forman Tracia & David Michael
1465 Palm Vally Dr. E.
Harlingen, TX 78552-9055

PID: 91452
Palm Valley – Palm Valley Ests 10
Lot 42 Blk 13
Sullivan Michael Robert &
Uriegas Melissa
1457 Palm Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91453
Palm Valley – Palm Valley Ests 10
Lot 43 Blk 13
Matthews Charles Mark & Legorreta
Laura Estela Tr of the Charles Mark
Matthews & Laura Legorreta Rev. Tr.
1449 Palm Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91454
Palm Valley – Palm Valley Ests 10
Lot 44 Blk 13
Castellanos Francisco
1441 Palm Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91455
Palm Valley – Palm Valley Ests 10
Lot 45 Blk 13
Casas Investments Holdings LLC
15671 Primera Rd.
Harlingen, TX 78552-0018

PID: 91456
Palm Valley – Palm Valley Ests 10
Lot 46 Blk 13
McCutcheon Todd R &
Sylvia McCutcheon
1425 Plam Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91457
Palm Valley – Palm Valley Ests 10
Lot 47 Blk 13
De Villegas Maria D. Murillo
1417 Palm Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91458
Palm Valley – Palm Valley Ests 10
Lot 48 Blk 13
Chavez Luis Alberto &
Susana Herlinda Chavez
1409 Palm Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91459
Palm Valley – Palm Valley Ests 10
Lot 49 Blk 13
Davis Billie Dee
1401 Palm Valley Dr. E.
Harlingen, TX 78552-9055

PID: 91460
Palm Valley – Palm Valley Ests 10
Lot 50 Blk 13
Ledesma Ricardo & Glenda Garza
PO Box 1571
Harlingen, TX 78551-1571

PID: 91461
Palm Valley – Palm Valley Ests 10
Lot 51 Blk 13
Ehasz Mona & Stephen J Ehasz Jr
1309 Palm Valley Dr. E.
Harlingen, TX 78552-9054

PID: 91462
Palm Valley – Palm Valley Ests 10
Lot 52 Blk 13
Sewell Lonnie & Earlene Sewell
1301 Palm Valley Dr. E
Harlingen, TX 78552-9054

PID: 91463
Palm Valley – Palm Valley Ests 10
Lot 53 Blk 13
Parce Fred D & Parce Maureen
1217 Palm Valley Dr. E.
Harlingen, TX 78552-9053

PID: 91464
Palm Valley – Palm Valley Ests 10
Lot 54 Blk 13
Chisholm Christina Maria &
Shannon C. Rudolph
2741 N. Cottonwood Loop
Wasilla, AK 99654-4231

PID: 91465
Palm Valley – Palm Valley Ests 10
Lot 55 Blk 13
Baucom Antony & Baucom Teresa
1201 Palm Valley Dr. E.
Harlingen, TX 78552-9053

PID: 91466
Palm Valley – Palm Valley Ests 10
Lot 56 Blk 13
Wolf Bryan H.
1125 Chico Cir.
Harlingen, TX 78552

PID: 91467
Palm Valley – Palm Valley Ests 10
Lot 57 Blk 13
Chapa Henry P. & Magdalena R.
810 Palm Ct. Dr.
Harlingen, TX 78550

PID: 91468
Palm Valley – Palm Valley Ests 10
Lot 58 Blk 13
Deskovick Gary & Deskovick Sandra
17314 Santa Isabel St.
Fountain Valley, CA 92708-3111

PID: 91469
Palm Valley – Palm Valley Ests 10
Lot 59 Blk 13
Thirlwall Jr. Charles Henry
155 Fireside Dr.
Brownsville, TX 78521-1646

PID: 91470
Palm Valley – Palm Valley Ests 10
Lot 60 Blk 13
Wolf Bryan H & Angela K
1009 Palm Valley Dr. E.
Harlingen, TX 78552-8964

PID: 91471
Palm Valley – Palm Valley Ests 10
Lot 61 Blk 13
Manning Brent M & Suzanne
1001 Palm Valley Dr. East
Harlingen, TX 78552

PID: 91472
Palm Valley – Palm Valley Ests 10
Lot 62 Blk 13
Lois Shreve
909 Palm Valley Dr. E.
Harlingen, TX 78552-8958

PID: 91473
Palm Valley – Palm Valley Ests 10
Lot 63 Blk 13
Garza Ruben D. & Veronica H. Garza
901 Palm Valley Dr. E.
Harlingen, TX 78552-8958

PID: 91474
Palm Valley – Palm Valley Ests 10
Lot 64 Blk 13
Furedi Ervin & Audrey
817 Palm Valley Dr. E.
Harlingen, TX 78552-8949

PID: 91573
Palm Valley – Palm Valley Ests 10
Lot 1 Blk 19
Arnold Donna J & James P Co. Trs of the
Donna J Arnold Liv. Tr.
1816 Palm Valley Dr. W.
Harlingen, TX 78552-9033

PID: 91574
Palm Valley – Palm Valley Ests 10
Lot 2 Blk 19
Peinert Robert Alfred
1808 Palm Valley Dr. W.
Harlingen, TX 78552-9033

PID: 91575
Palm Valley – Palm Valley Ests 10 PT
Lot 3 Blk 19
Ramee Elizabeth C.
1748 Brazo Cir.
Harlingen, TX 78552-8937

PID: 91576
Palm Valley – Palm Valley Ests 10 PT
Lot 3 & All Lot 4 Blk 19
Petersen Darlene L &
Petersen Vernon E
1740 Brazo Cir.
Harlingen, TX 78552-8937

PID: 91577
Palm Valley – Palm Valley Ests 10
Lot 5 Blk 19
Bennett Charles Scott &
Bennett Leisa G.
135 N. Nueces Park Ln.
Harlingen, TX 78552-6232

PID: 91578
Palm Valley – Palm Valley Ests 10
Lot 6 Blk 19
Kokal Elsie
1724 Brazo Cir.
Harlingen, TX 78552-8937

PID: 91579
Palm Valley – Palm Valley Ests 10
Lot 7 Blk 19
Kelley Sally A Living Trust
1716 Brazo Cir.
Harlingen, TX 78552-8937

PID: 91580
Palm Valley – Palm Valley Ests 10
Lot 8 Blk 19
Schwing Cynthia Swanberg
7918 Corinth Dr.
Corpus Christi, TX 78413-6031

PID: 91581
Palm Valley – Palm Valley Ests 10
Lot 9 Blk 19
Nesmith Thomas H. Jr.
Alice A.
1700 Brazo Cir.
Harlingen, TX 78552

PID: 91582
Palm Valley – Palm Valley Ests 10
Lot 10 Blk 19
Werley William E. Sr. Trustee for the William E Werley Sr. Amended Restated Rev. Living Trust
1600 Brazo Cir.
Harlingen, TX 78552-8967

PID: 91583
Palm Valley – Palm Valley Ests 11 Lot 1
Haman Neil & Lynda
900 Palm Valley Dr. W.
Harlingen, TX 78552-9013

PID: 91584
Palm Valley – Palm Valley Ests 11 Lot 2
Lamantia Morgan
802 Palm Valley Dr. W.
Palm Valley, TX 78552-9032

PID: 91585
Palm Valley – Palm Valley Ests 11 Lot
Donnelly Thomas & Alma Donnelly
5502 Bougainvillea Dr.
Harlingen, TX 78552-8963

PID: 91647
Palm Valley – Palm Valley HAC-2 Lot 16
McNabb Mildred M.
5610 Arnold Palmer Dr.
Harlingen, TX 78552-8904

PID: 91651
Palm Valley – Palm Valley HAC-3 Lot 20
Lerberg Lynne Marie J
5611 Arnold Palmer
Harlingen, TX 78552

PID: 91652
Palm Valley – Palm Valley HAC-3 Lot 21
Gloor Brenda Sue
5608 Byron Nelson Dr.
Harlingen, TX 78552-8905

PID: 204693
Survey – Harlingen Devl Blk C 7.21 Ac
Blk C, 7.2100 Acres
Harlingen Country Club Inc.
5500 El Camino Real
Harlingen, TX 78552-8901

ATTACHMENT "G"
PHOTO PLAN WITH PHOTOS OF
EFFLUENT DISCHARGE POINT
& EFFLUENT DISPOSAL SITE



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PHOTO 01
08/28/2025

FERRIS, FLINN & MEDINA LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
Phone: (956) 364-2235 Fax (956) 364-1023
TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 10537-00 FIRM REGISTRATION NO.: F-697

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PHOTO 02
08/28/2025

FERRIS, FLINN & MEDINA LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
PHONE (956) 364-2225 FAX (956) 364-1023
TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 10070-00 FIRM REGISTRATION NO.: F-697

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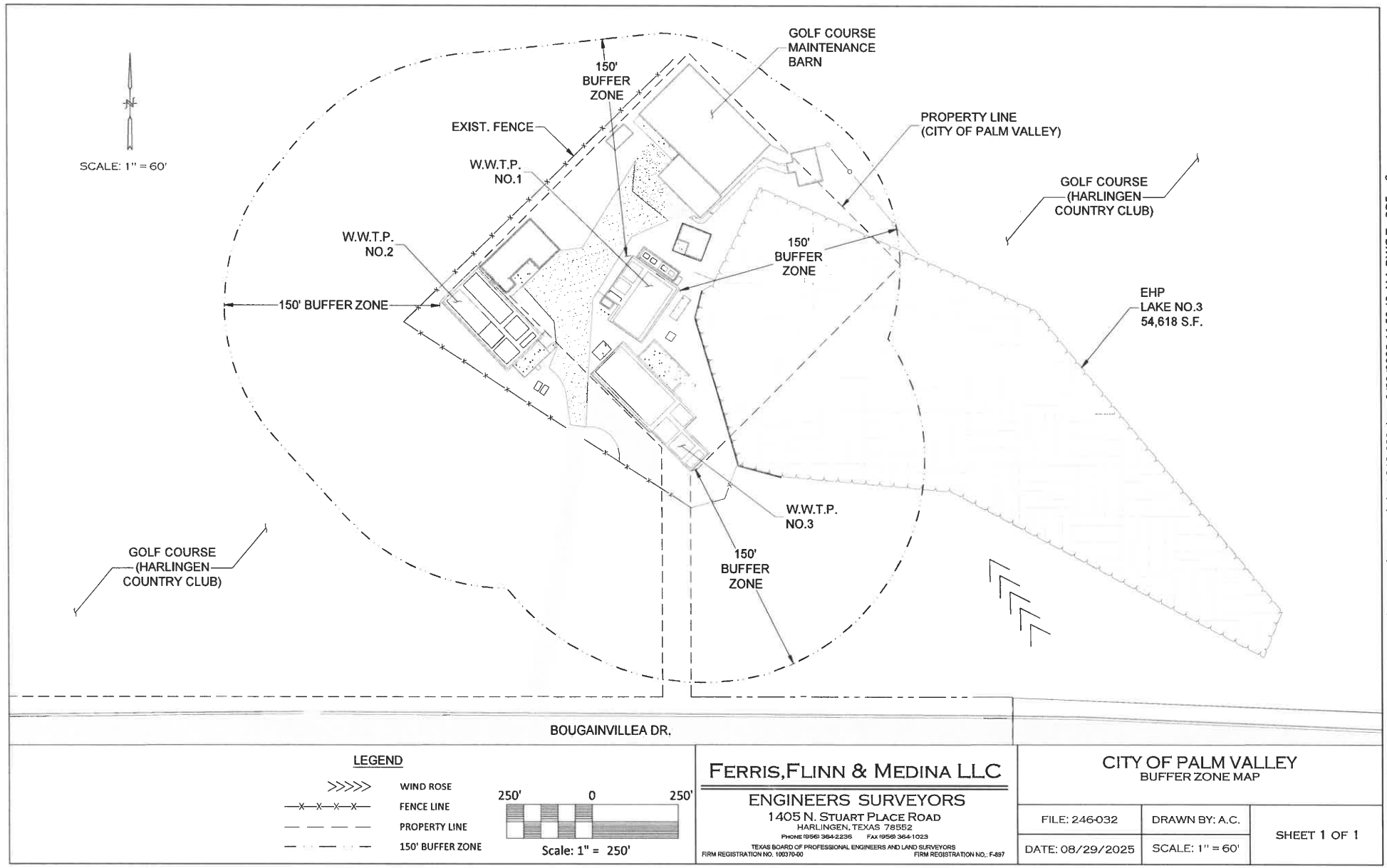


PHOTO 03
08/28/2025

FERRIS,FLINN & MEDINA LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
HARLINGEN, TEXAS 78552
Phone: (956) 364-2235 Fax: (956) 364-1025
TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. 10075-00 FIRM REGISTRATION NO.: F-497

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ATTACHMENT "H"
BUFFER ZONE MAP



LEGEND

WIND ROSE

FENCE LINE

PROPERTY LINE

150' BUFFER ZONE

250' 0 250'

Scale: 1" = 250'

FERRIS, FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-697

CITY OF PALM VALLEY

BUFFER ZONE MAP

FILE: 246-032	DRAWN BY: A.C.	SHEET 1 OF 1
DATE: 08/29/2025	SCALE: 1" = 60'	

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 8/29/2025 11:50:48 AM, DWG To PDF.pc3

ATTACHMENT "I"
DETAILED DESCRIPTION OF TREATMENT PROCESS

Detailed Description of Treatment Process
City of Palm Valley WWTP

The existing sewage treatment facilities of the City of Palm Valley consist of three (3) packaged type extended aeration activated sludge sewage treatment plants which are run in parallel, each receiving its flow from a proportional weir box which correctly divides the sewage influent to each plant.

All three sewage treatment plants were furnished by Process Engineered Equipment Company (PEECO) of Corpus Christi, Texas. The plants were designed to treat raw wastewater with a strength of 200 mg/l BOD and 200 mg/l TSS.

One of the plants has a treatment capacity of 120,000 GPD. The other two plants have a treatment capacity of 80,000 GPD each. Therefore, the total combined capacity is 280,000 GPD.

In all three plants raw sewage is pumped to an aeration basin where the raw waste is mixed with return sludge and ample air for approximately 24 hours. This mixture flows to a settling tank or clarifier where sludge settles to the bottom. The clear effluent flows from the settling tank to a chlorine contact tank, and the settled sludge flows back to the aeration basin. After chlorination in the chlorine contact tank, the final effluent is discharged into five connected golf course lakes. Excess activated sludge is discharged into an aerated sludge holding tank, or digester, where it is stored for final disposal at the Reavis Farms (Permit No. 4861) land application site located in Hidalgo County. Digester supernatant and overflow are returned to the aeration basin. All tanks in these plants are constructed of concrete.

The five connected golf course lakes which receive the treated effluent from these three plants have a capacity of 10,973,914 gallons or 33.68 Ac.-Ft., and a surface area of 8.41 acres. The lakes provide a 39.19 day detention at future maximum flows of 280,000 GPD.

Based on evaporation of 60" per year, the daily average evaporation is 39,724 GPD.

The lakes irrigate a golf course of approximately 139.5 acres, of which 75.32 acres are fairways, tees, and greens.

ATTACHMENT "J"
DESIGN FEATURES

WWTP DESIGN FEATURES

The City of Palm Valley owns and operates three packaged type extended aeration sludge sewage treatment plants. Plant No. 1 & 2 are each 80,000 GPD treatment capacity plants. Plant No. 3 is a 120,000 GPD treatment capacity plant. All three plants consist of an aerator unit, an aerated sludge holding (ASH) unit, a clarifier unit, and a chlorine contact chamber (CCC). The accompanying plan & profile drawings provide detailed information of each corresponding plant. The dimensions of each of the treatment units are as follows:

Plant No. 1: 80,000 GPD Treatment Capacity

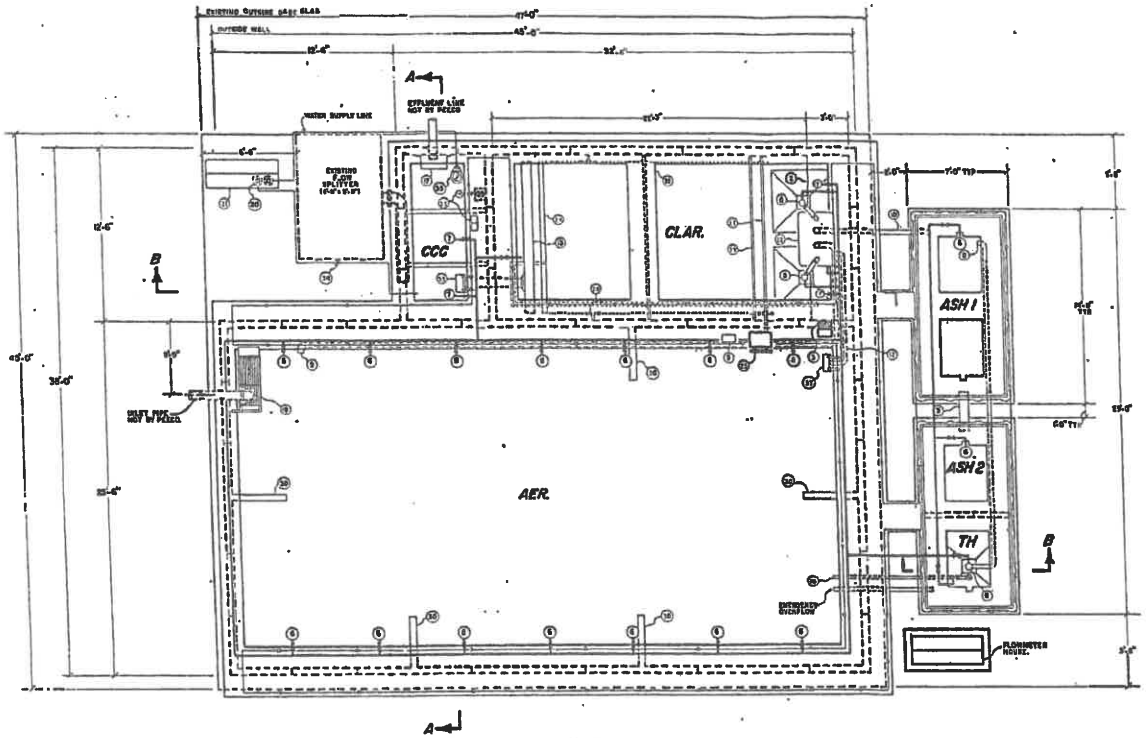
TREATMENT UNIT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
Aeration	44	24.5	10.83
ASH Unit 1	13	6	10.83
ASH Unit 2	13	6	10.83
Clarifier	12.5	25.25	10.83
CCC	12.5	5.75	10.83

Plant No. 2: 80,000 GPD Treatment Capacity

TREATMENT UNIT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
Aeration Unit 1	40.5	15.5	10.83
Aeration Unit 2	31.5	15.5	10.83
ASH	15.5	15.5	10.83
Clarifier	31.5	15.5	10.83
CCC	6.5	15.5	10.83

Plant No. 3: 120,000 GPD Treatment Capacity

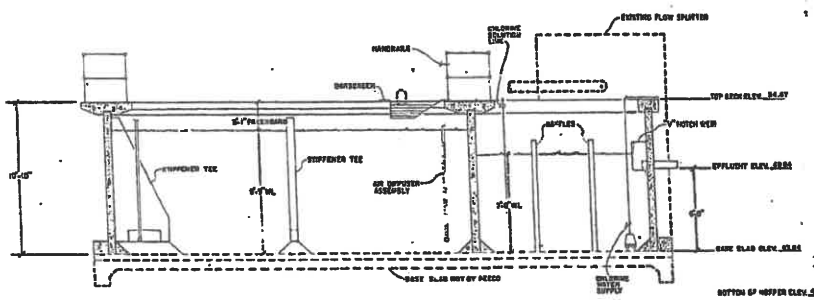
TREATMENT UNIT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)
Aeration	55.5	28	10.83
ASH	12	28	10.83
Clarifier	31.5	15.5	10.83
CCC	7.5	15.5	10.83



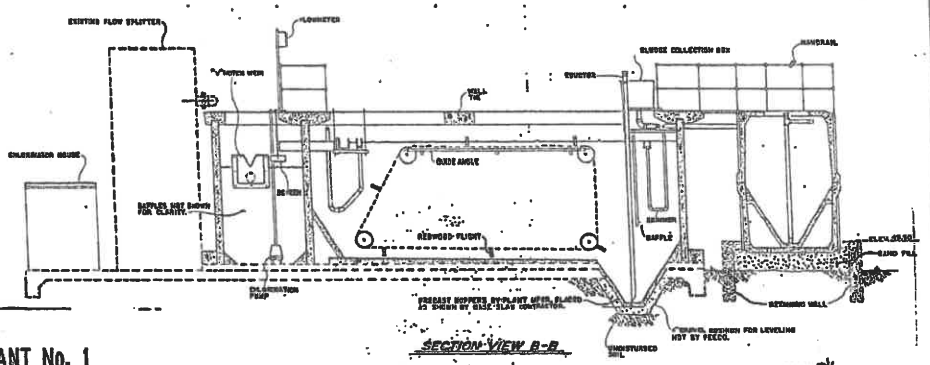
PLAN VIEW

SYMBOLS	BASIN	WATER LEVEL	GALLONS	
AER.	AERATION	8'-0"	70,355	
ASH	AERATED SLUDGE HOLDING	8'-0"	10,000	
CLAR.	CLARIFIER	10'-0"	19,831	257 SQ. FT.
CCC	CHLORINE CONTACT CHAMBER	7'-0"	3,612	
TH.	THICKENER			

1.	PARTITION, WATER TIGHT
2.	BAFFLE
3.	FLOW PORT/PIPE
4.	BLOWER ASSEMBLY
5.	CONTROL PANEL
6.	AIR DIFFUSER
7.	AIR BUBBLER
8.	SLUDGE EDUCTOR ASSEMBLY
9.	SLUDGE RETURN LINE
10.	SLUDGE DRAW OFF LINE
11.	SKIMMER
12.	SKIMMER DISCHARGE PIPING
13.	WEIR BOX/TROUGH ASSEMBLY
14.	SCUM BAFFLE
15.	WEIR DISCHARGE PIPING
16.	NOZING TUBE
17.	"V" NOTCH WEIR
18.	SUPERNATANT DECANT
19.	BARSCREEN
20.	CHLORINATOR
21.	CHLORINATOR HOUSE
22.	SLUDGE COLLECTION BOX
23.	FLOWMETER
24.	SKIMMER TROUGH
25.	SCRAPER DRIVE ASSEMBLY
26.	SCRAPER SPROCKET
27.	SCRAPER DRIVE SHAFT
28.	SCRAPER DRIVE CHAIN
29.	SCRAPER DRIVE FLIGHT
30.	STIFFENER TEE
31.	WALL TIE
32.	STAIR
33.	SCREEN
34.	CHLORINE SOLUTION LINE
35.	CHLORINATION PUMP
	AIR CONTROL VALVE
	WEIGHTED, PRESSURE RELIEF VALVE
	CHECK VALVE
	PRESSURE GAGE
	GATE VALVE



SECTION VIEW A-A



SECTION VIEW B-B

PLANT No. 1

APPROVED
KASON, GARDNER, CREIGHTON & KASON, INC.
CONSULTING ENGINEERS CORPUS CHRISTI, TEXAS 78408
BY
DATE OCT 24 1989

PROCESS ENGINEERED EQUIPMENT CO.
438 MCBRIDE LANE
P.O. BOX 9549
CORPUS CHRISTI, TEXAS 78469
512-289-8891

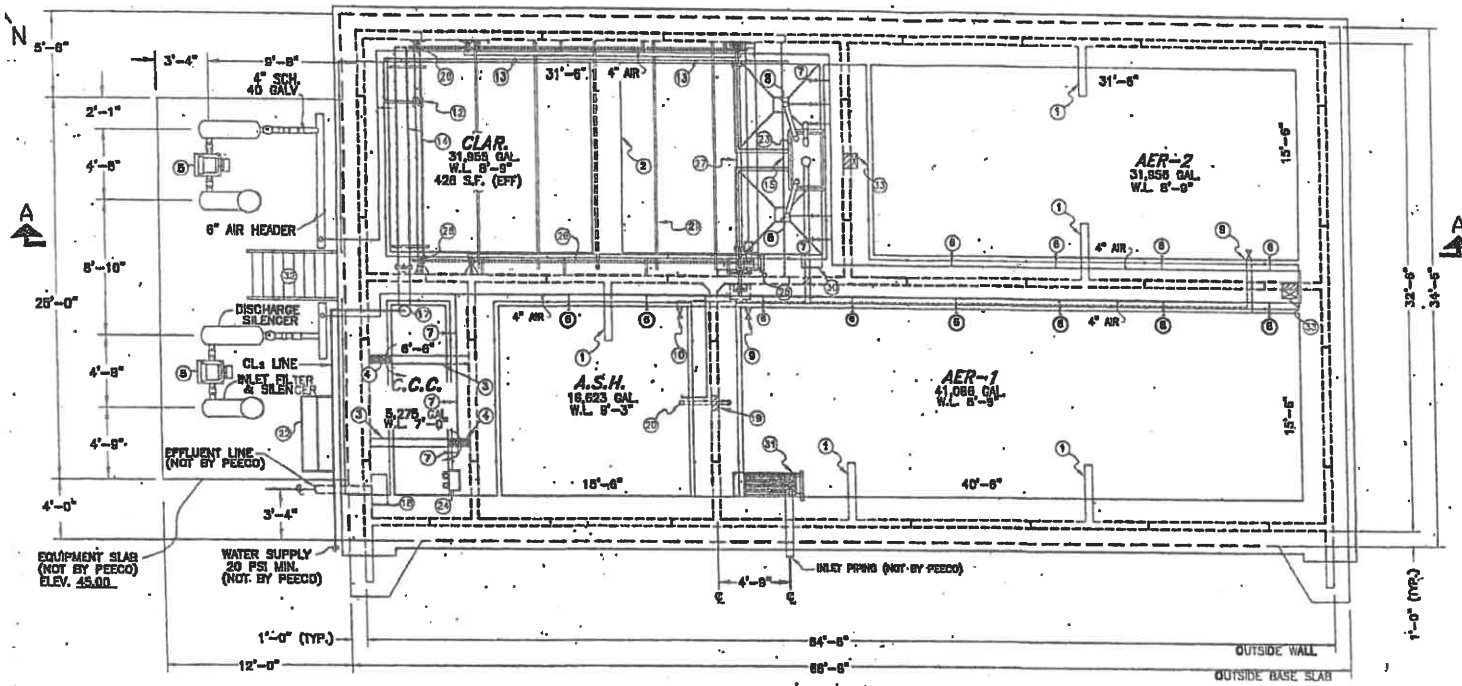
NO	DATE	REVISION
1	2-20-89	ADDED SECTION VIEW B-B

PECCO DWG NO: 84-20-01
SCALE: 1/8"=1'-0"
DATE: 2-20-89
DWN BY: DC
APPROVED:

PROPOSED 45,000 GPD, 30, 20/20 EFFLUENT, EXTENDED AERATION WASTEWATER TREATMENT PLANT.

PALM VALLEY WWTP.

SHEET

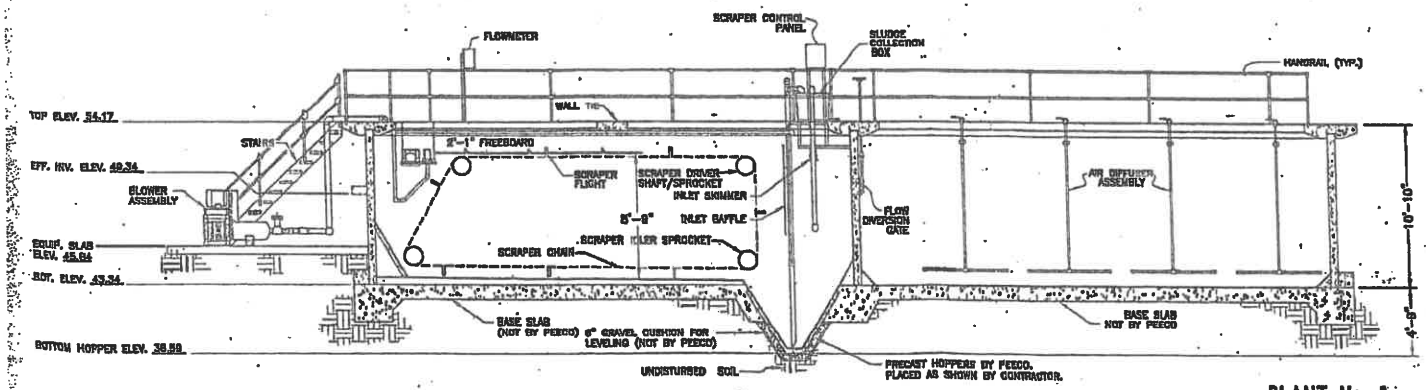


PLAN VIEW

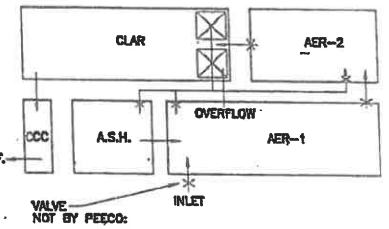
SYMBOLS	BASIN	WATER LEVELS	GAL'S.
AER-	AERATION	8'-9"	73,042
ASH-	AERATED SLUDGE HOLDING	8'-3"	16,623
CLAR-	CLARIFIE	8'-9"	31,695
CCC-	CHLORINE CONTACT CHAMBER	7'-0"	5,275

1- WALL SUPPORT TEE (CONCRETE)
2- WALL SUPPORT/TIE (CONCRETE)
3- PARTITION/BAFFLE (CONCRETE)
4- FLOWPORT/PIPE
5- BLOWER ASSEMBLY
6- AIR DIFFUSER
7- AIR BUBBLER
8- SLUDGE AIRLIFT ASSEMBLY
9- SLUDGE RETURN LINE (RAS)
10- SLUDGE WASTE LINE (WAS)
11- SKIMMER TROUGH, INLET
12- SKIMMER TROUGH, EFFLUENT
13- SKIMMER DISCHARGE PIPING
14- WEIR TROUGH/SKIMMER ASSEMBLY
15- SCUM BAFFLE/TRP.
16- WEIR DISCHARGE PIPING
17- MIXING TUBE
18- V NOTCH WEIR
19- SUPERNATANT RETURN OVERFLOW
20- SUPERNATANT RETURN AIRLIFT
21- CHLORINATOR
22- CHLORINATOR HOUSE
23- SLUDGE COLLECTION BOX
24- FLOWMETER
25- SCRAPER DRIVE ASSEMBLY
26- SCRAPER SPROCKET
27- SCRAPER DRIVE SHAFT
28- SCRAPER CHAIN
29- SCRAPER FLIGHT
30- CONTROL PANEL (ELECTRICAL)
31- BARSCREEN
32- STAIRWAY
33- FLOW DIVERSION GATE

—A— AIR LINE
AIR CONTROL VALVE
WEIGHTED, PRESSURE RELIEF VALVE
CHECK VALVE
GATE VALVE



SECTION VIEW A-A



FLOW DIAGRAM

PLANT No. 2

PROCESS ENGINEERED EQUIPMENT CO.
438 MERRIDIE LANE
P.O. BOX 9310
CORPUS CHRISTI, TEXAS. 78469
351-288-8881

PEECO

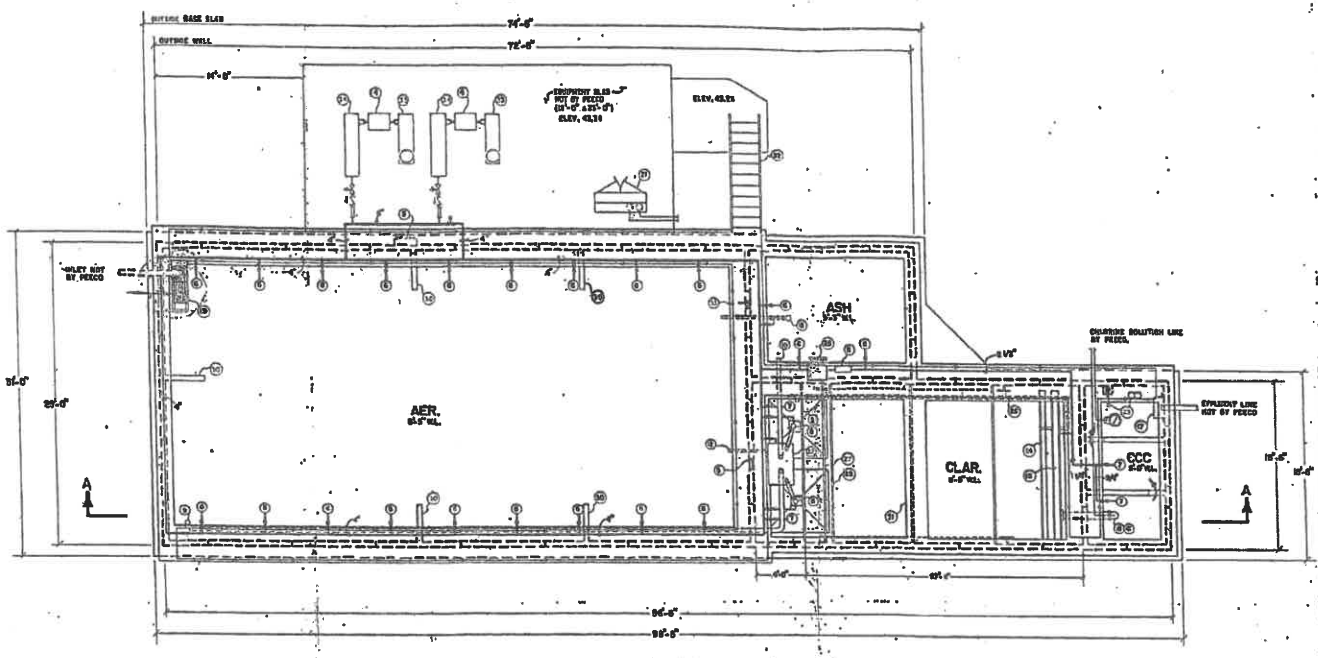
NO	DATE	REVISION

PEECO DWG NO. 229-596-45
SCALE: 1/4"=1'-0"
DATE: 08/01/01
DRN BY: LGS
APPROVED

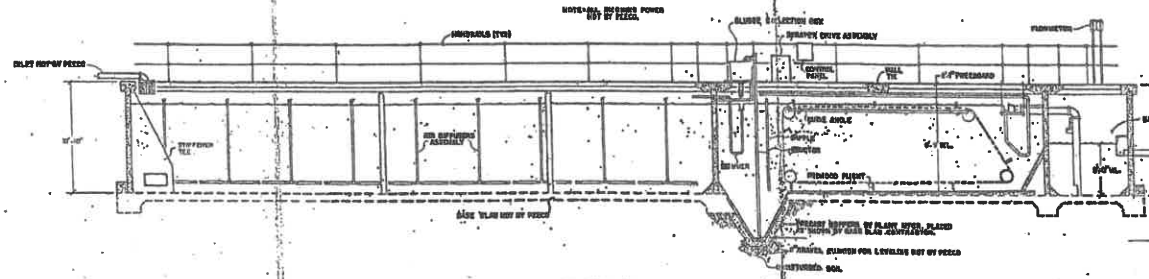
PALM VALLEY ESTATES
WWTP -REPLACEMENT
PLAN VIEW & SECTION

SHEET 01 of 48

16,623 120
11,082
1,282



PLAN VIEW



SECTION VIEW A-A

SYMBOLS

AER.	AERATION	101,709 GPD
ASH.	AERATED SLUDGE HOLDING	15,570 GPD
CLAR.	CLARIFIER	31,536 GPD
CCC.	CHLORINE CONTACT CHAMBER	4,560 GPD

425 SQ.FT

PARTITION, WATER TIGHT
BAFFLE
FLOW PORT/PIPE
BLOWER & MOTOR
CONTROL PANEL
AIR DIFFUSER
AIR BUBBLER
SLUDGE EDUCTOR ASSEMBLY
SLUDGE RETURN LINE
SLUDGE DRAW OFF LINE
SKIMMER
SKIMMER DISCHARGE PIPING
WEIR-BOX/TROUGH ASSEMBLY
SCUM BAFFLE
WEIR DISCHARGE PIPING
MIXING TUBE
"V" NOTCH WEIR
SUPERNATANT DECANT
BARSCREEN
CHLORINATOR
CHLORINATOR HOUSE
SLUDGE COLLECTION BOX
FLOWMETER
SKIMMER TROUGH
SCRAPER DRIVE ASSEMBLY
SCRAPER SPROCKET
SCRAPER DRIVE SHAFT
SCRAPER DRIVE CHAIN
SCRAPER DRIVE FLIGHT
STIFFENER TEE
WALL TIE
STAIR
INLET FILTER & SILENCER
DISCHARGE SILENCER
EMERGENCY OVERFLOW
CHECK VALVE
PRESSURE GAGE
GATE VALVE
AIR CONTROL VALVE
WEIGHTED, PRESSURE RELIEF VALVE



FLOW DIAGRAM

PLANT No. 3

PROCESS ENGINEERED EQUIPMENT CO.
2002 NORTH PORT AVENUE
CORPUS CHRISTI, TEXAS 78401
512-884-0443

PEECO

NO	DATE	REVISION
1	10-6-88	REVISED AS PER RED LINED PRINT
2	8-24-88	REVISED EQUIPMENT PLAN

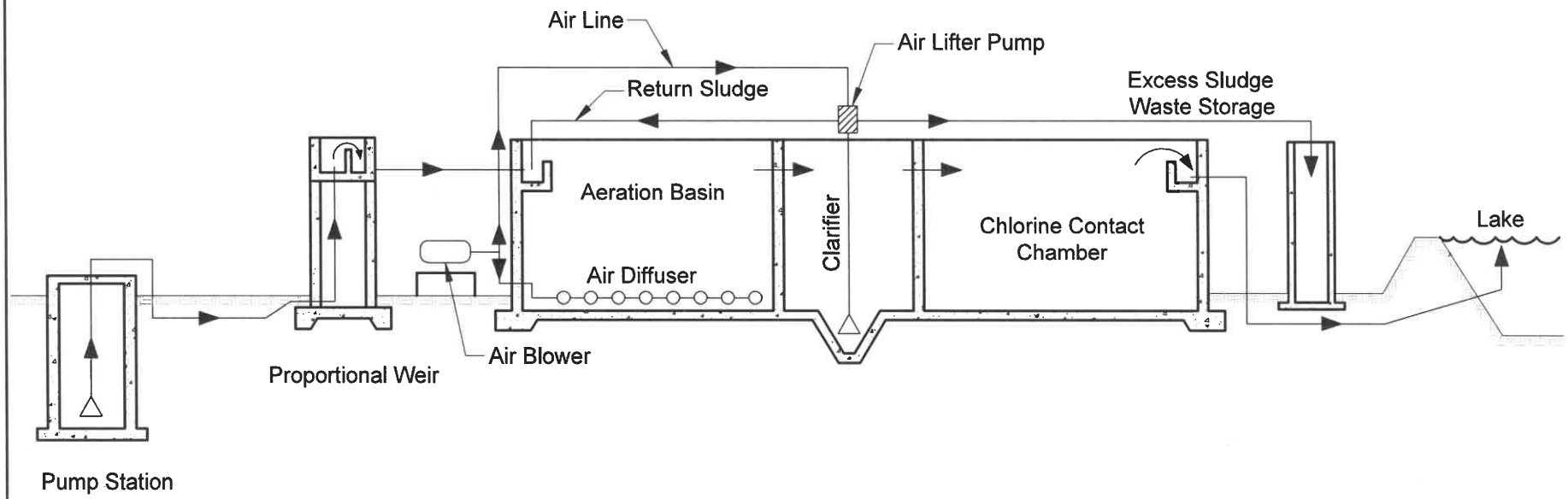
PEECO DWG NO: 1088-83-8
SCALES: 3/16" = 1'-0"
DATE: 4-23-88
DWN BY: B.C.
APPROVED:

PROPOSED AERATION 150,000 GPD, 30/90 EFFLUENT, EXTENDED WASTEWATER TREATMENT PLANT

PALM VALLEY ESTATES

SHEET

ATTACHMENT "K"
PROCESS FLOW DIAGRAM



Flow Diagram For Extended
Activated Sludge Plant
Typical of all Three (3) Plants

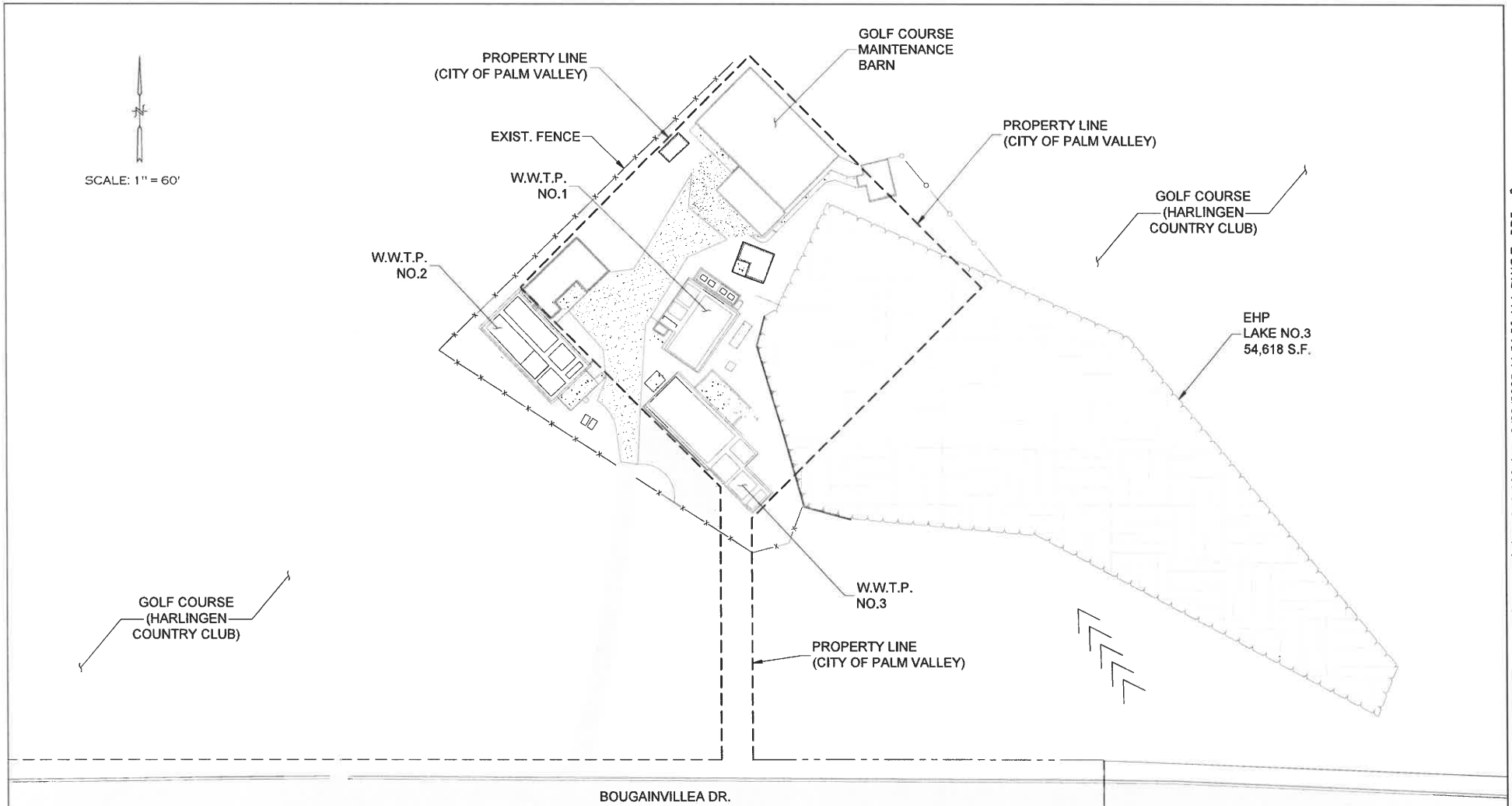
CITY OF PALM VALLEY

FERRIS, FLINN & MEDINA, LLC
ENGINEERS SURVEYORS
1405 N. STUART PLACE ROAD
PALM VALLEY, TEXAS 78552
PHONE (956) 364-2236 FAX (956) 364-1023
TEXAS BOARD OF PROFESSIONAL LAND SURVEYING FIRM REGISTRATION NO. 100370-00
TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM REGISTRATION NO. F-897

SCALE: N.T.S.	DRAWN BY: A.C.	08/18/2025	JOB NO: 246-032

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 8/18/2025 5:00:29 PM, DWG To PDF.pc3

ATTACHMENT "L"
SITE DRAWING



LEGEND

WIND ROSE

FENCE LINE

PROPERTY LINE

250' 0 250'

Scale: 1" = 250'

FERRIS, FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 10037000 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

SITE DRAWING

FILE: 246-032	DRAWN BY: A.C.	SHEET 1 OF 1
DATE: 08/29/2025	SCALE: 1" = 60'	

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 8/29/2025 11:51:56 AM, DWG To PDF.pc3

ATTACHMENT "M"
ANNUAL CROPPING PLAN

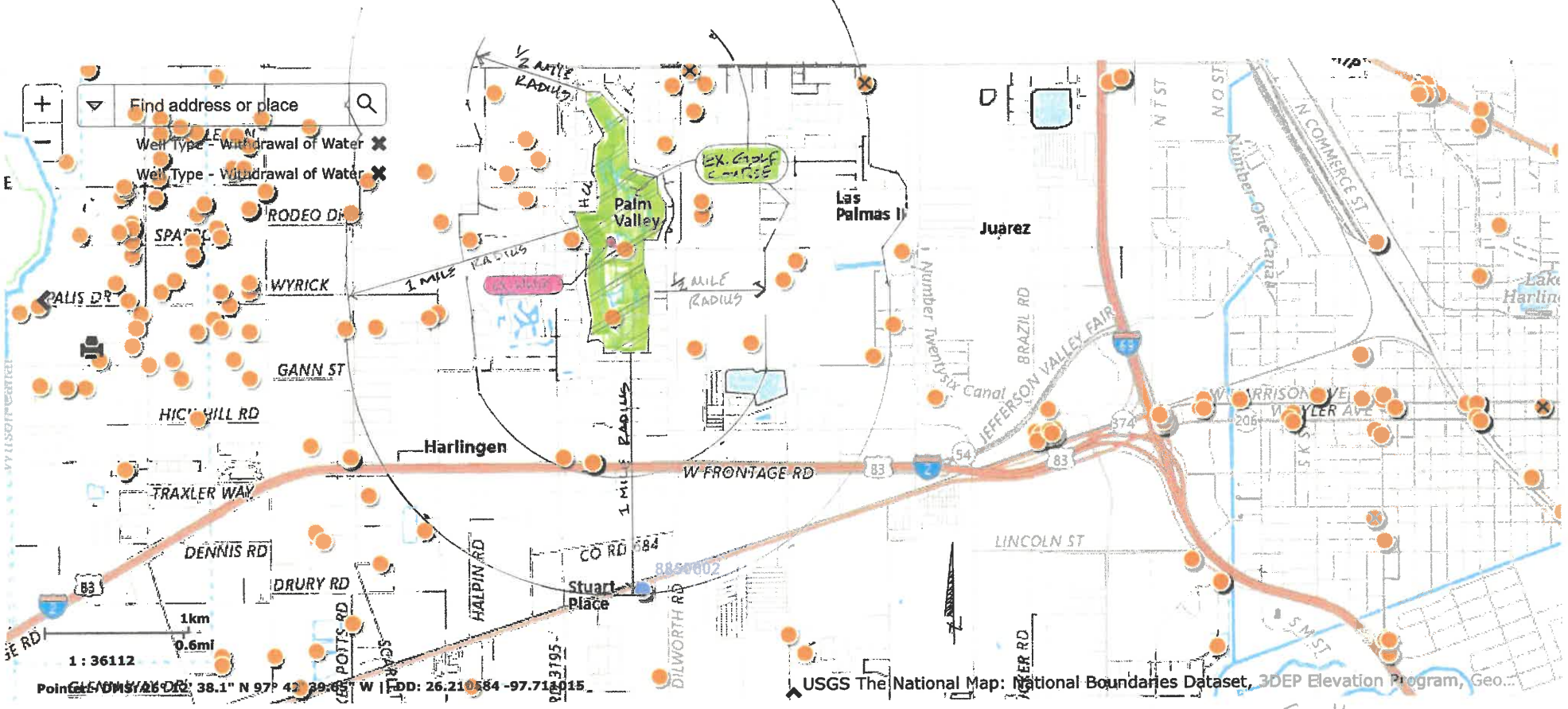
ANNUAL CROPPING PLAN

The WWTP effluent is blended with stormwater and raw water (via Harlingen Irrigation District) in five (5) holding ponds. The diluted effluent is applied to a 139.5 acre golf course belonging to the Harlingen Country Club. Common Bermuda Recreational Turf Grass is grown on the Golf Course year around. Established/mature lawns require 0.5 lbs N/1000 sf/ month, or, 216.36 lbs N/acre/yr. The WWTP Effluent-Design Total Nitrogen Loading Rate is 1.27 lbs N/acre/yr. Per the Golf Course Superintendent, additional fertilizer (consisting of 1 lb phosphate/ 2 lbs nitrogen/ 4 lbs potassium) per acre is applied once per week. Generally, turf mowing consists of: rough (@ 2" height) once every two weeks; fairways and tee boxes (@1/2" height) once every week; and, greens (@ 1/8" height) once daily.

ATTACHMENT "N"
WELL AND MAP INFORMATION

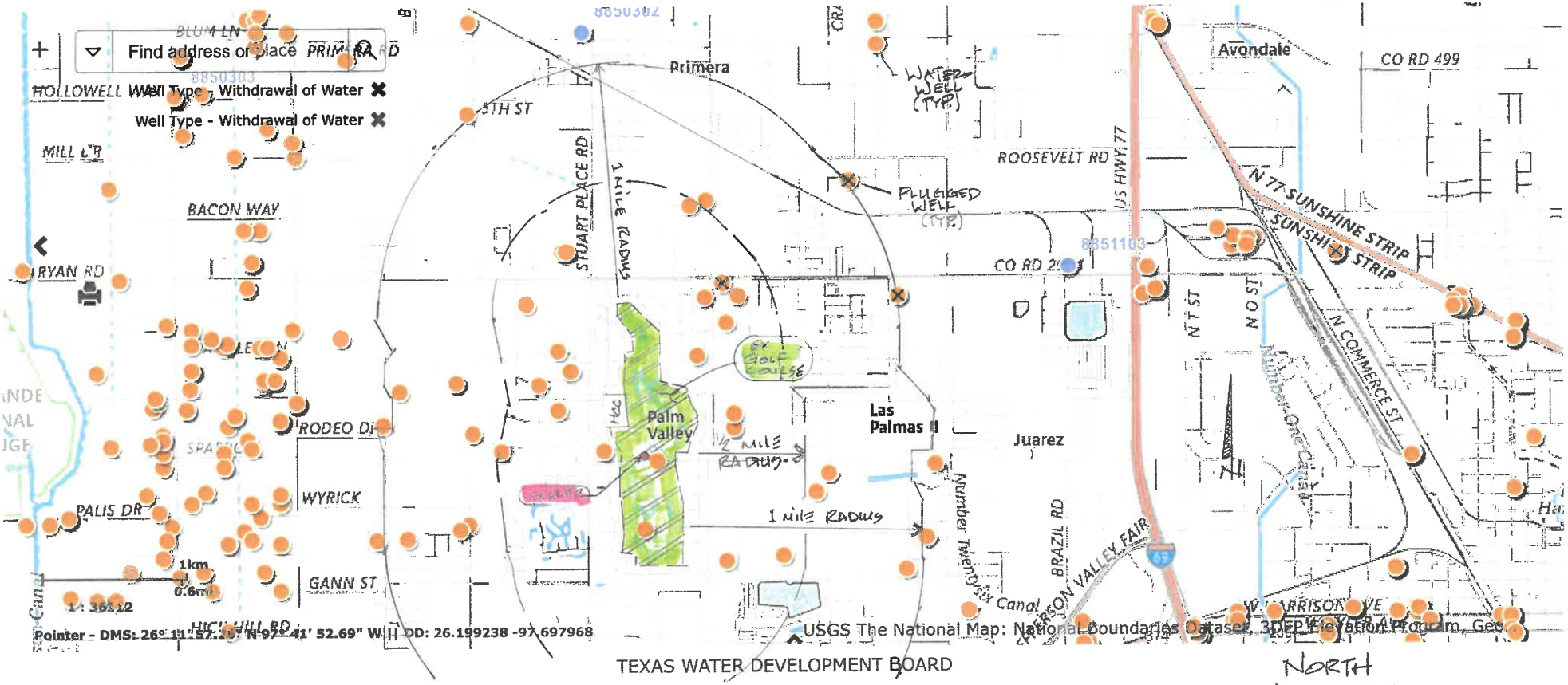
WELL AND MAP INFORMATION

The development surrounding the Harlingen Country Club Golf Course, which is irrigated with the effluent from the City of Palm Valley WWTP, is serviced by municipal drinking water delivered through pipelines. The existing water wells within ½ mile radius of the Golf Course boundary are private. USGS maps, with well locations & well numbers are provided along with well data. No groundwater monitoring is available. Item No. 17 of the special provisions is in reference to past (prior to 2006) groundwater monitoring of an offsite – sludge land application site, previously owned by the City. The February 28, 2005 application letter, discussing this change in Sludge Management, is also provided.



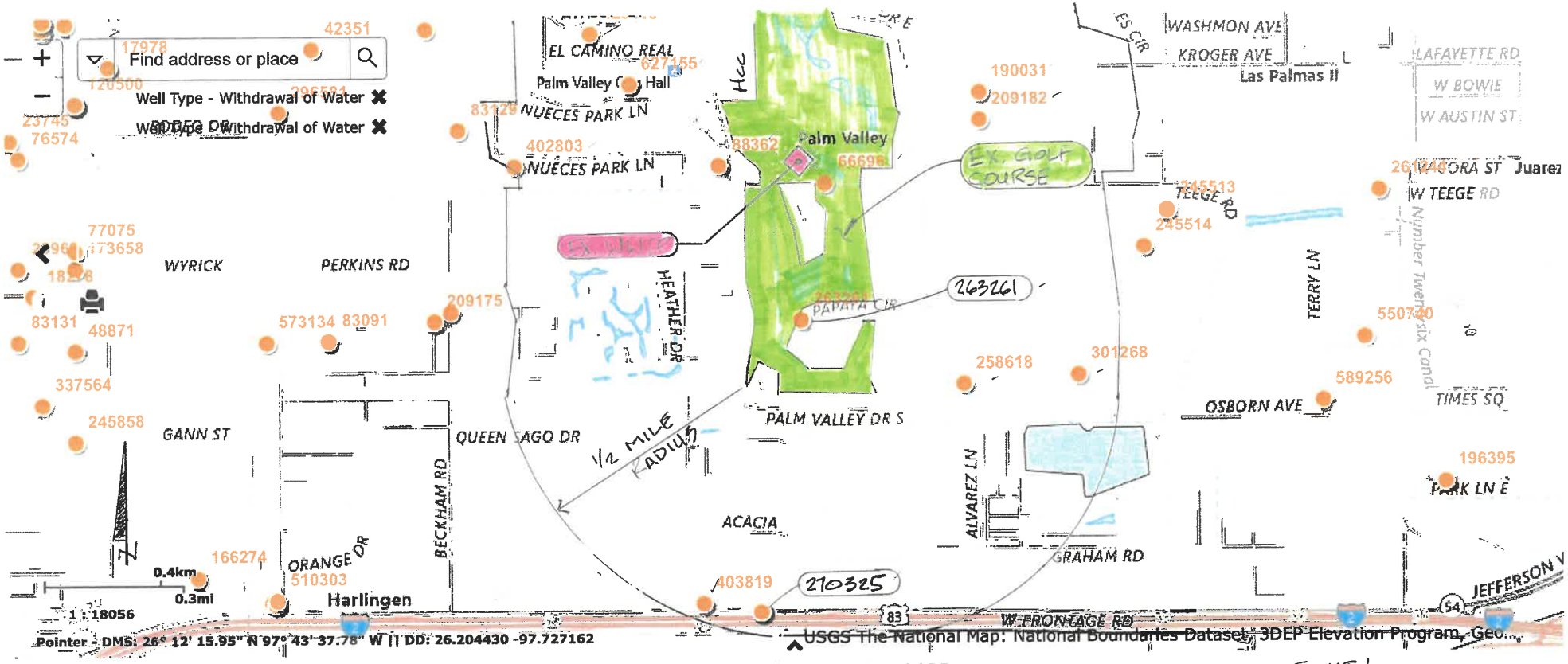
TEXAS WATER DEVELOPMENT BOARD

South
WELL MAP
1 mile RADIUS
FROM GOLF COURSE
BOUNDARY



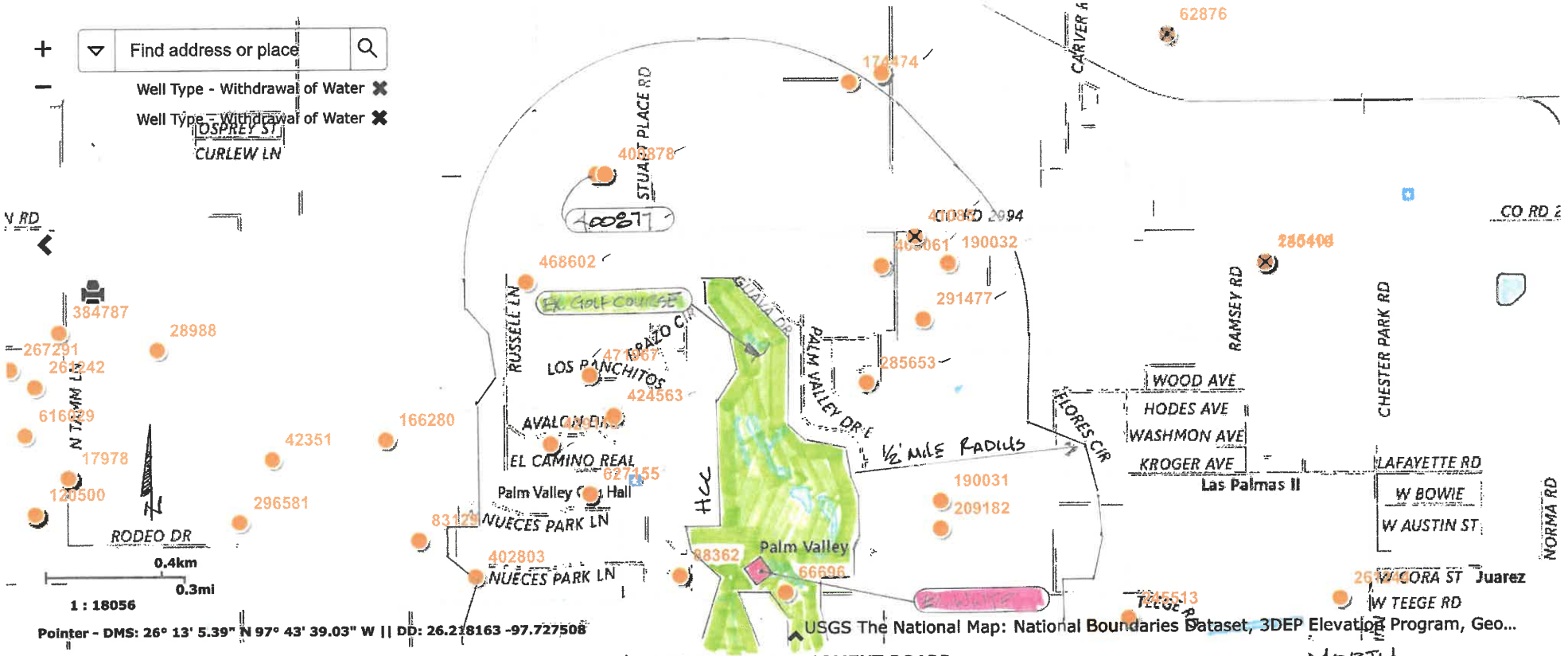
TEXAS WATER DEVELOPMENT BOARD

NORTH
WELL MAP
1 MILE RADIUS
FROM GOLF COURSE
BOUNDARY



TEXAS WATER DEVELOPMENT BOARD

SOUTH WELL MAP
1/2 MILE RADIUS
FROM GOLF COURSE
BOUNDARY



TEXAS WATER DEVELOPMENT BOARD

NORTH
WELL MAP
½ MILE RADIUS
FROM GOLF COURSE
BOUNDARY

CITY OF PALM VALLEY
TLAP Permit Application
Table 3.0 Water Well Data (1/2 Mile Radius)
August 26, 2025

Well ID	Well Use	Producing	Open, cased,Capped or Plugged?	Proposed BMP
190031	Private	Unknow	Cased	
209182	Private	Unknow	Cased	
263261	Private	Unknow	Cased	
258618	Private	Unknow	Cased	
301268	Private	Unknow	Cased	
270325	Private	Unknow	Cased	
403819	Private	No	Plugged	Plugging Report 168248
66696	Private	Unknow	Cased	
88362	Private	Unknow	Cased	
402803	Private	Unknow	Cased	
627155	Private	Unknow	Cased	
429118	Private	Unknow	Cased	
424563	Private	Unknow	Cased	
471967	Private	Unknow	Cased	
468602	Private	Unknow	Cased	
400877	Private	Unknow	Cased	
400878	Private	Unknow	Cased	
174474	Private	Unknow	Cased	
41085	Private	Unknow	Cased	
469061	Private	Unknow	Cased	
190032	Private	Unknow	Cased	
291477	Private	Unknow	Cased	
285653	Private	Unknow	Cased	

I
WELL < ½ mile

STATE OF TEXAS WELL REPORT for Tracking #190031

Owner:	**Jerry Pallares**	Owner Well #:	**1**
Address:	**24399 Dilworth Road Harlingen, TX 78552**	Grid #:	**88-51-4**
		Latitude:	**26° 12' 11" N**
Well Location:	**24399 Dilworth Road Harlingen, TX 78552**	Longitude:	**097° 44' 54" W**
Well County:	**Cameron**	Elevation:	**45 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/7/2009** Drilling End Date: **8/7/2009**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**42**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
32	**42**	**Gravel**	**crushed**

Annular Seal Data:

Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
0	**6**	**2 cement**
6	**20**	**3 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **11 ft.** below land surface on **2009-08-07** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	15	clay, brown
15	42	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	N	PVC	PSI 200 0 32
2	N	PVC	slotted screen 32 42 .010

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

I

WELL < ½ MILE

STATE OF TEXAS WELL REPORT for Tracking #209182

Owner:	**Jerry Pallares**	Owner Well #:	**No Data**
Address:	**1/2 mile S Dilworth Harlingen, TX 78552**	Grid #:	**88-51-4**
		Latitude:	**26° 12' 08" N**
Well Location:	**1/2 mile S Dilworth Rd Harlingen, TX 78552**	Longitude:	**097° 44' 54" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **10/28/2008** Drilling End Date: **10/28/2008**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**35**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	**25**	**35**	**Gravel**	**crushed**

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	**0**	**6**	**2 Portland cmt**
	6	**20**	**2 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **7 ft.** below land surface on **2008-10-28** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P.O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **$scd**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**clay brown**
20	**35**	**sand brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	**N**	**PVC**	**psi 200 0-25**
2	**N**	**PVC**	**slotted screen 25-35 .010**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

I

WELL < 1/2 mi

STATE OF TEXAS WELL REPORT for Tracking #263261

Owner:	**Amelia De Leon**	Owner Well #:	**1**
Address:	**5332 Papaya Circle Harlingen, TX 78550**	Grid #:	**88-50-6**
		Latitude:	**26° 11' 46" N**
Well Location:	**5332 Papaya Circle Harlingen, TX 78550**	Longitude:	**097° 45' 16" W**
Well County:	**Cameron**	Elevation:	**62 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/2/2011** Drilling End Date: **8/2/2011**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**30**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
20	**30**	**Gravel**	**crushed**

Annular Seal Data:

Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
0	**5**	**2 cement**
5	**15**	**1 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **11 ft.** below land surface on **2011-08-02** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	13	clay, brown
13	30	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	N	PVC	psi 200 0 20
2	N	PVC	slotted screen 20 30 .010

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

STATE OF TEXAS WELL REPORT for Tracking #258618

Owner:	**Michael Simpson**	Owner Well #:	**1**
Address:	**25087 Dilworth Road Harlingen, TX 78552**	Grid #:	**88-51-4**
		Latitude:	**26° 11' 39" N**
Well Location:	**25087 Dilworth Road Harlingen, TX 78552**	Longitude:	**097° 44' 56" W**
Well County:	**Cameron**	Elevation:	**36 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **5/18/2011** Drilling End Date: **5/18/2011**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.25**	**0**	**165**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**145**	**165**	**Gravel**	**crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**5**	**2 cement**
	5	**75**	**12 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **7 ft.** below land surface on **2011-05-18** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay, brown**
15	**75**	**sand, brown**
75	**106**	**clay, brown**
106	**165**	**sand, brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**N**	**PVC**	**psi 200 0 145**
4	**N**	**PVC**	**slotted screen 145 165 .010**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #301268

Owner:	**Nila Wipf**	Owner Well #:	**1**
Address:	**4310 Stonechase Drive Harlingen, TX 78550**	Grid #:	**88-51-4**
		Latitude:	**26° 11' 40" N**
Well Location:	**4310 Stonechase Drive Harlingen, TX 78550**	Longitude:	**097° 44' 42" W**
Well County:	**Cameron**	Elevation:	**71 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **9/13/2012** Drilling End Date: **9/13/2012**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**5.25**	**0**	**45**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**35**	**45**	**Gravel**	**crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**4**	**2 cement**
	4	**15**	**2 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **50**

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **12 ft.** below land surface on **2012-09-13** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Jet**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay, brown**
15	**45**	**sand, brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	**N**	**PVC**	**psi 200 0 35**
2	**N**	**PVC**	**slotted screen 35 45 .010**

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STATE OF TEXAS WELL REPORT for Tracking #270325

Owner:	**Anglo Iron and Metal**	Owner Well #:	**SB-1 to SB-21**
Address:	**2318 U.S. Highway 83 West Harlingen, TX 78552**	Grid #:	**88-50-6**
Well Location:	**2318 U.S. Highway 83 West Harlingen, TX 78552**	Latitude:	**26° 11' 14" N**
		Longitude:	**097° 45' 21" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Environmental Soil Boring**

Drilling Start Date: **10/18/2011** Drilling End Date: **10/18/2011**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**3**	**0**	**5**

Drilling Method: **Driven**

Borehole Completion: **Plugged**

Annular Seal Data:	*Top Depth (ft.)*	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
	0	**2**	**0.15 Cement**
	2	**5**	**0.25 Bentonite**

Seal Method: **Hand Mixed**

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: **N/A**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Plug Information:	*Description (number of sacks & material)*	*Top Depth (ft.)*	*Bottom Depth (ft.)*
	N/A		

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

Chemical Analysis Made: **Unknown**

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

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

Company Information: **Vortex Drilling, Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **Robert Joiner** License Number: **54776**

Comments: **The following borings were all identical: SB-1 to SB-21.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3	Dk.grayish brw.sandy clay
3	5	Brw.silty clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
N/A			

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STATE OF TEXAS WELL REPORT for Tracking #403819

Owner:	**7-Eleven Inc. # 36547**	Owner Well #:	**MW-1**
Address:	**P O Box 711 Dallas, TX 75201**	Grid #:	**88-50-6**
Well Location:	**6780 W. Expressway 83 Harlingen, TX 78552**	Latitude:	**26° 11' 15" N**
		Longitude:	**097° 45' 28" W**
Well County:	**Cameron**	Elevation:	**No Data**

****This well has been plugged**** **Plugging Report Tracking #168248**

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

Drilling Start Date: **7/27/2015** Drilling End Date: **7/27/2015**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.25**	**0**	**25**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**4**	**25**	**Gravel**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**1 Bag Concrete**
	2	**4**	**0.8 Bentonite**

Seal Method: **HAND**

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: **15 ft.** below land surface on **2015-07-27** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**Non-Potable**

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: **Vortex Drilling Inc**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **Heriberto Martinez** License Number: **59554**

Apprentice Name: **Eduardo Valle**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**-.25**	**Concrete**
.25	**-15**	**Sandy clay, dark brown, dry, low cohesion, low plasticity, subangular sand grains up to 3mm diameter, poorly sorted, becomes brown @ 5', becomes dark yellowish brown @6', clay content increasing, moist, some black stained sand grains @ 15'**
15	**-23**	**Clayey sand, brownish yellow, wet, no cohesion, no plasticity, well sorted, subangular to subrounded fine to medium, well sorted grains**
23	**-25**	**Sand, brownish yellow, wet, no cohesion well sorted, subrounded, fine grains**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2"	**NEW**	**SCH 40 PVC .010**	**24' to 4' Screen**
2"	**NEW**	**SCH 40 PVC**	**4' to 0 Riser**
2"	**NEW**	**Top and Bottom Cap**	

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STATE OF TEXAS PLUGGING REPORT for Tracking #168248

Owner:	**7-Eleven Inc. #36547**	Owner Well #:	**MW-1**
Address:	**P.O. Box 711 Dallas, TX 75221**	Grid #:	**88-50-6**
Well Location:	**6780 West Expressway 83 Harlingen, TX 78552**	Latitude:	**26° 11' 15" N**
		Longitude:	**097° 45' 28" W**
Well County:	**Cameron**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **Vortex Drilling Inc** Date Drilled: **7/27/2015**

Driller: **Heriberto Martinez** License Number: **59554**

Well Report Tracking #403819

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.25**	**0**	**25**

Plugging Information

Date Plugged: **5/10/2017** Plugger: **James E Neal**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
2	**5**	**24**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 0.07 Bags/Sacks**
2	**24**	**Bentonite 0.64 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **James E Neal** License Number: **4868**

Apprentice Name: **David Lozano**

Comments: **No Data**

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Well < 1/2 mile

STATE OF TEXAS WELL REPORT for Tracking #66696

Owner:	**Keith Martin**	Owner Well #:	**No Data**
Address:	**1408 Palm Valley Dr E Harlingen, TX 78550**	Grid #:	**88-50-6**
		Latitude:	**26° 12' 01" N**
Well Location:	**1408 Palm Valley Dr E Same, TX 78550**	Longitude:	**097° 45' 13" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **11/26/2003** Drilling End Date: **11/26/2003**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**40**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	**30**	**40**	**Gravel**	

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	**0**	**2**	**2**
	2	**20**	**2**

Seal Method: **Betonite & Cement Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **On City Water Supply**

Surface Completion: **Surface Slab Installed**

Water Level: **6 ft.** below land surface on **2003-11-26** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Jet**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P O Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **LCS$**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	14	Clay Brown
14	40	Sand Brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	New	PVC PS I 200	0 30
2	New	PVC Slotted Screen	30 40 .010

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I
WELL < ½ MILE

STATE OF TEXAS WELL REPORT for Tracking #88362

Owner:	**Green Valley Sprinklers**	Owner Well #:	**No Data**
Address:	**Rt. 1, Box 690-C Harlingen, TX 78552**	Grid #:	**88-50-6**
		Latitude:	**26° 12' 03" N**
Well Location:	**700 Palm Valley Drive. W. Harlingen, TX 78550**	Longitude:	**097° 45' 26" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/15/2003** Drilling End Date: **8/15/2003**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**38**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	**28**	**38**	**Gravel**	

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	**0**	**20**	**2**

Seal Method: **Bentonite**

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: **On City Water Supply**

Surface Completion: **Surface Slab Installed**

Water Level: **12 ft.** below land surface on **2003-08-15** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Jet**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	18	Clay Brown
18	38	Sand Brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	New	PVC PSI 200	0 28
2	New	PVC Slotted Screen	28 38 .010

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STATE OF TEXAS WELL REPORT for Tracking #402803

Owner:	**Rachel Waddell**	Owner Well #:	**1**
Address:	**143 S. Nueces Park Harlingen, TX 78552**	Grid #:	**88-50-6**
Well Location:	**143 S. Nueces Park Harlingen, TX 78552**	Latitude:	**26° 12' 03" N**
		Longitude:	**097° 45' 51" W**
Well County:	**Cameron**	Elevation:	**38 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **7/21/2015** Drilling End Date: **7/21/2015**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**5.25**	**0**	**48**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**38**	**48**	**Gravel**	**crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**9**	**2 cement**
	9	**15**	**3 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **8 ft.** below land surface on **2015-07-21** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay, brown**
15	**48**	**sand, brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	**N**	**PVC**	**psi 200 0 38**
2	**N**	**PVC**	**slotted screen 38 48 .010**

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T
WELL < ½ MILE

STATE OF TEXAS WELL REPORT for Tracking #627155

Owner:	**Romulo Rangel**	Owner Well #:	**01**
Address:	**105 N Nueces Park Lane Harlingen, TX 78552**	Grid #:	**88-50-6**
		Latitude:	**26° 12' 12" N**
Well Location:	**105 N Nueces Park Lane Harlingen, TX 78552**	Longitude:	**097° 45' 37" W**
Well County:	**Cameron**	Elevation:	**43 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **12/13/2022** Drilling End Date: **12/14/2022**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	80

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
	60	80	Gravel	3/8

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	30	Concrete 30 Bags/Sacks

Seal Method: **Pressure**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **65**

Distance to Septic Tank (ft.): **100**

Method of Verification: **Owner Verified**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **10 ft.** below land surface on **2022-12-14** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Gasoline**

Well Tests: **Pump** **Yield: 40 GPM with 5 ft. drawdown after 2 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	60 - 80	Clear

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: **R. Pizano Water Well Service**

1601 W Vinson Ave
Harlingen, TX 78550

Driller Name: **Raul S. Pizano** License Number: **54267**

Apprentice Name: **Samuel Pizano** Apprentice Number: **57329**

Comments: **Water well pressure cemented to meet 50ft Sanitary Sewage Control Easement. On-site sewage facility was existing at the time of water well completion.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	15	Top Soil
15	30	Gray Clay
30	50	Clay w/ Sand
50	60	Brown Clay
60	80	Coarse Sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	40	0	70
2	Screen	New Plastic (PVC)	40 0.008	70	80

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STATE OF TEXAS WELL REPORT for Tracking #429118

Owner:	**Frank del Angel**	Owner Well #:	**1**
Address:	**P. O. Box 1407 Harlingen, TX 78551**	Grid #:	**88-50-6**
Well Location:	**Avalon Harlingen, TX 78550**	Latitude:	**26° 12' 17.52" N**
		Longitude:	**097° 45' 41.76" W**
Well County:	**Cameron**	Elevation:	**62 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **7/11/2016** Drilling End Date: **7/11/2016**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**5.25**	**0**	**40**

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

Borehole Completion: **gravel, crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**5**	**Concrete 1 Bags/Sacks**
	5	**15**	**Bentonite 1 Bags/Sacks**

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

Distance to Septic Tank (ft.): **50**

Method of Verification: **Cameron County Health Dept**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **10 ft.** below land surface on **2016-07-11** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Unknown**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	20 - 40	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	20	clay, brown
20	40	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	200	0	30
2	Perforated or Slotted	New Plastic (PVC)	40 0.010	30	40

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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1
WELL < 1/2 MILE

STATE OF TEXAS WELL REPORT for Tracking #424563

Owner:	**Green Valley Sprinklers**	Owner Well #:	**1**
Address:	**16532 Wilson Road Harlingen, TX 78552**	Grid #:	**88-50-6**
		Latitude:	**26° 12' 20.58" N**
Well Location:	**Avalon Drive Harlingen, TX 78550**	Longitude:	**097° 45' 34.02" W**
Well County:	**Cameron**	Elevation:	**28 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **4/27/2016** Drilling End Date: **4/27/2016**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**45**

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

Borehole Completion: **gravel, crushed**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	**7**	**Concrete 2 Bags/Sacks**
	7	**16**	**Bentonite 2 Bags/Sacks**

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

Distance to Septic Tank (ft.): **50**

Method of Verification: **Cameron County Health Dept**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **8 ft.** below land surface on **2016-04-27** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Unknown**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	15 - 45	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	15	clay, brown
15	45	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	200	0	35
2	Perforated or Slotted	New Plastic (PVC)	40 0.010	35	45

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STATE OF TEXAS WELL REPORT for Tracking #471967

Owner:	**Linda Briones**	Owner Well #:	**01**
Address:	**464 Elvira St San Benito, TX 78586**	Grid #:	**88-50-6**
Well Location:	**16367 Los Ranchitos Rd Palm Valley, TX 78552**	Latitude:	**26° 12' 25" N**
		Longitude:	**097° 45' 37" W**
Well County:	**Cameron**	Elevation:	**43 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **2/19/2018** Drilling End Date: **2/20/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**58**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**35**	**60**	**Gravel**	**3/8**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**35**	**Concrete 18 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **40**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Well Easement for Subdivision**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **8 ft.** below land surface on **2018-02-20** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Gasoline**

Well Tests: **Pump** **Yield: 30 GPM with 5 ft. drawdown after 2 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	**35 - 60**	**Clear**

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: **R. Pizano Water Well Service**

1601 W Vinson Ave
Harlingen, TX 78550

Driller Name: **Raul S. Pizano** License Number: **54267**

Apprentice Name: **Samuel Pizano** Apprentice Number: **57329**

Comments: **Pressure cemented to comply with 50 ft Sanitation Easement for Water Wells. There was no On-Site Sewage Facility (Septic Tank System) on-site during time of water well completion. Water well installed/drilled in accordance with Engineer Site Plan/Survey for subdivision. Additional Apprentice Well Driller On Site: Saul Pizano (License #: 59683)**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	15	Top Soil
15	35	Clay
35	45	Fine Sand w/ Clay
45	60	Coarse Sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	40	0	48
2	Screen	New Plastic (PVC)	40 0.008	48	58

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STATE OF TEXAS WELL REPORT for Tracking #468602

Owner:	**David R. Sanchez**	Owner Well #:	**01**
Address:	**16169 Primera Rd. Harlingen, TX 78552**	Grid #:	**88-50-3**
		Latitude:	**26° 12' 35.3" N**
Well Location:	**16336 Patwin Harlingen, TX 78552**	Longitude:	**097° 45' 44.8" W**
Well County:	**Cameron**	Elevation:	**42 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **12/26/2017** Drilling End Date: **12/27/2017**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**130**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**100**	**130**	**Gravel**	**3/8**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**30**	**Concrete 35 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **20**

Distance to Septic Field or other concentrated contamination (ft.): **80**

Distance to Septic Tank (ft.): **74**

Method of Verification: **Owner Verified**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **10 ft.** below land surface on **2017-12-27** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Gasoline**

Well Tests: **Pump** **Yield: 30 GPM with 5 ft. drawdown after 2 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	100 - 130	Clear

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: **R. Pizano Water Well Service**

1601 W Vinson Ave
Harlingen, TX 78550

Driller Name: **Raul S. Pizano** License Number: **54267**

Comments: **Water well sealed for 50 ft radius sanitation easement by driller.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	10	Top Soil
10	30	Clay
30	50	Fine Sand
50	100	Brown Clay
100	130	Coarse Sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	40	0	110
2	Screen	New Plastic (PVC)	40 0.008	110	130

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STATE OF TEXAS WELL REPORT for Tracking #400877

Owner:	**Sunquest Apartments**	Owner Well #:	**#1**
Address:	**23850 Stuart Place Road Primera, TX 78550**	Grid #:	**88-50-3**
		Latitude:	**26° 12' 47" N**
Well Location:	**23850 Stuart Place Road Primera, TX 78550**	Longitude:	**097° 45' 36" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **7/21/2015** Drilling End Date: **7/21/2015**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.5**	**0**	**48**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**22**	**48**	**Gravel**	**8/12**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**22**	**5**

Seal Method: **treme pipe**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **300**

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

Method of Verification: **sight and measure**

Surface Completion: **Surface Slab Installed**

Water Level: **9 ft.** below land surface on **2015-07-21** Measurement Method: **Unknown**

Packers: **no packers well is cemented**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 20 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	18-48	good

Chemical Analysis Made: **No**

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

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

Company Information: **Bell Water Well Service**

P.O. Box 1800
Elsa, TX 78543

Driller Name: **W.G. Bell Jr.** License Number: **50236**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3	surface
3	18	shale
18	50	sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	new	plastic	blank 0-28
4	new	plastic	screen 28-48 10thds.

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STATE OF TEXAS WELL REPORT for Tracking #400878

Owner:	**Sunquest Apartments**	Owner Well #:	**# 2**
Address:	**23850 Stuart Place Road Primera, TX 78550**	Grid #:	**88-50-3**
Well Location:	**23850 Stuart Place Road Primera, TX 78550**	Latitude:	**26° 12' 47" N**
		Longitude:	**097° 45' 35" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **7/22/2015** Drilling End Date: **7/22/2015**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.5**	**0**	**48**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**22**	**48**	**Gravel**	**8/12**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**22**	**5**

Seal Method: **treme pipe**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **300**

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

Method of Verification: **sight and measure**

Surface Completion: **Surface Slab Installed**

Water Level: **9 ft.** below land surface on **2015-07-22** Measurement Method: **Unknown**

Packers: **no packers well is cemented**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 20 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	18-48	good

Chemical Analysis Made: **No**

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

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

Company Information: **Bell Water Well Service**

P.O. Box 1800
Elsa, TX 78543

Driller Name: **W.G. Bell Jr.** License Number: **50236**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3	surface
3	18	shale
18	50	sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	new	Plastic	Blank 0-28
4	new	Plastic	Screen 28- 48 .10thds.

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STATE OF TEXAS WELL REPORT for Tracking #174474

Owner:	**Salazar, Leticia**	Owner Well #:	**1**
Address:	**5013 Nacahuita Ln. Harlingen, TX 78552**	Grid #:	**88-50-3**
		Latitude:	**26° 12' 57" N**
Well Location:	**5013 Nacahuita Ln. Harlingen, TX 78552**	Longitude:	**097° 45' 05" W**
Well County:	**Cameron**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **3/24/2009** Drilling End Date: **3/24/2009**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**5.25**	**0**	**45**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	**35**	**45**	**Gravel**	

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	**0**	**5**	**2 Cement**
	5	**15**	**2 Bentonite**

Seal Method: **Cement Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **City Water Supply**

Surface Completion: **Surface Slab Installed**

Water Level: **7 ft.** below land surface on **2009-03-24** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

PO Box 1717
LaFerria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **^EO**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay brown**
15	**45**	**sand brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2"	**N**	**PVC PSI 200**	**0'-35'**
2"	**N**	**PVC Slotted Screen**	**35'-45' .010**

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STATE OF TEXAS PLUGGING REPORT for Tracking #41085

Owner:	**Velco**	Owner Well #:	**No Data**
Address:	**PO Box 533609** **Harlingen, TX 78550**	Grid #:	**88-51-1**
		Latitude:	**26° 12' 40" N**
Well Location:	**Wilson Rd.** **Harlingen, TX 78550**	Longitude:	**097° 44' 57" W**
Well County:	**Cameron**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data** Date Drilled: **7/24/2007**

Driller: **Michael Miller** License Number: **1885AKLP**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**5.25**		**60**

Plugging Information

Date Plugged: **7/22/2007** Plugger: **Michael Miller**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
1	**2**	**1 cement**
2	**60**	**1 bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Miller Water Wells**

PO Box 1717
La Feria, TX 78550

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**
loc update by twdb, 8/21/14

STATE OF TEXAS WELL REPORT for Tracking #469061

Owner:	**Amelia D Gutierrez**	Owner Well #:	**1**
Address:	**24054 N Dilworth Road Harlingen, TX 78552**	Grid #:	**88-50-3**
		Latitude:	**26° 12' 36.72" N**
Well Location:	**24054 N Dilworth Road Harlingen, TX 78552**	Longitude:	**097° 45' 01.08" W**
Well County:	**Cameron**	Elevation:	**73 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **12/5/2017** Drilling End Date: **12/5/2017**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**5.25**	**0**	**40**

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

Borehole Completion: **gravel, crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**Concrete 5 Bags/Sacks**

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **25**

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

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

Method of Verification: **on city water**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **8 ft.** below land surface on **2017-12-05** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **Unknown**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	17 - 40	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	17	clay, brown
17	40	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	class 200	0	30
2	Perforated or Slotted	New Plastic (PVC)	sch 40 0.010	30	40

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #190032

Owner:	**David Arellano**	Owner Well #:	**1**
Address:	**16532 Wilson Road Harlingen, TX 78552**	Grid #:	**88-51-1**
		Latitude:	**26° 12' 37" N**
Well Location:	**16532 Wilson Road Harlingen, TX 78552**	Longitude:	**097° 44' 53" W**
Well County:	**Cameron**	Elevation:	**50 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/13/2009** Drilling End Date: **8/13/2009**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.25**	**0**	**45**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**35**	**45**	**Gravel**	**crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**6**	**2 cement**
	6	**20**	**3 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **12 ft.** below land surface on **2009-08-13** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

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

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

Chemical Analysis Made: **No**

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

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

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**clay, brown**
20	**45**	**sand, brown**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**N**	**PVC**	**sch 40 0 35**
4	**N**	**PVC**	**slotted screen 35 45 .010**

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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 #291477

Owner:	**Ryan Neuman**	Owner Well #:	**1**
Address:	**24173 Dilworth Harlingen, TX 78550**	Grid #:	**88-51-1**
		Latitude:	**26° 12' 31" N**
Well Location:	**24173 Dilworth Harlingen, TX 78550**	Longitude:	**097° 44' 56" W**
Well County:	**Cameron**	Elevation:	**47 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **5/10/2012** Drilling End Date: **5/10/2012**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**5.25**	**0**	**45**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**35**	**45**	**Gravel**	**crushed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**6**	**2 cement**
	6	**20**	**2 bentonite**

Seal Method: **cement slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **platted**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **inspected**

Surface Completion: **Surface Slab Installed**

Water Level: **11 ft.** below land surface on **2012-05-10** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	20	clay- brown
20	45	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	N	PVC	psi 200 0 35
2	N	PVC	slotted screen 35 45 .012

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

1 WELL < ½ mile

STATE OF TEXAS WELL REPORT for Tracking #285653

Owner:	**Robert G. Hill**	Owner Well #:	**1**
Address:	**1420 Preston Trail Harlingen, TX 78552**	Grid #:	**88-50-6**
		Latitude:	**26° 12' 24" N**
Well Location:	**1420 Preston Trail Harlingen, TX 78552**	Longitude:	**097° 45' 03" W**
Well County:	**Cameron**	Elevation:	**56 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **4/25/2012** Drilling End Date: **4/25/2012**

Borehole:

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
5.25	0	50

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
35	50	Gravel	crushed

Annular Seal Data:

Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
0	7	2 cement
7	20	2 bentonite

Seal Method: **cement slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **platted**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **on city water supply**

Surface Completion: **Surface Slab Installed**

Water Level: **10 ft.** below land surface on **2012-04-25** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **No Test Data Specified**

Water Quality:	Strata Depth (ft.)	Water Type
	No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Miller Water Wells**

P. O. Box 1717
La Feria, TX 78559

Driller Name: **Michael Miller** License Number: **1885**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	15	clay, brown
15	50	sand, brown

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2	N	PVC	psi 200 0 35
2	N	PVC	slotted screen 35 50 .010

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

CHAS. A. GREENWOOD, P.E.
CHAIRMAN OF THE BOARD

WM. R. SHEA, P.E.
PRESIDENT

SIGLER, WINSTON, GREENWOOD
& ASSOCIATES, INC.
Consulting Engineers

1604 EAST HIGHWAY 83
WESLACO, TEXAS 78596 ☒
AC 956-968-2194 Fax 968-8300

929 E. Esperanza Ave., SUITE 16
McALLEN, TEXAS 78501 ☐
AC 956-682-1326

JOE B. WINSTON, JR., P.E.
VICE-PRESIDENT

RANDALL C. WINSTON, P.E.
SECRETARY/TREASURER

February 28, 2005

Water Quality Applications Team
Texas Commission on Environmental Quality
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

Gentlemen:

Enclosed please find an original and three (3) copies of a Domestic Wastewater Permit Application for the renewal of Palm Valley Estates Utility District's Wastewater Treatment Facility Permit No. 10972-002, and a copy of the check mailed to TCEQ's Revenue Section (MC 214) for processing of the same.

The renewal of the permit incorporates a minor modification consisting of a request from the Palm Valley Estates Utility District to cease from Permit 10972-002 the Santa Rosa Beneficial Land Application Site. During the Board Meeting held on February 22, 2005, the Palm Valley Utility District Board voted for contracting with a registered transporter to dispose of the sludge at a registered land application site. Attachment A of the Domestic Wastewater Permit Application provides more detailed information on this issue.

If you have any questions, don't hesitate to give me a call at (956) 968-2194, or (956) 682-1326.

Sincerely,

SIGLER, WINSTON, GREENWOOD
& ASSOC., INC.

Alfonso A. Gonzalez, P.E.

AAG:bb
Encls.

cc: Mr. Frank Dusek, Manager, Palm Valley Estates Utility District, 1313 Stuart Place Road, Suite 107, Harlingen 78550

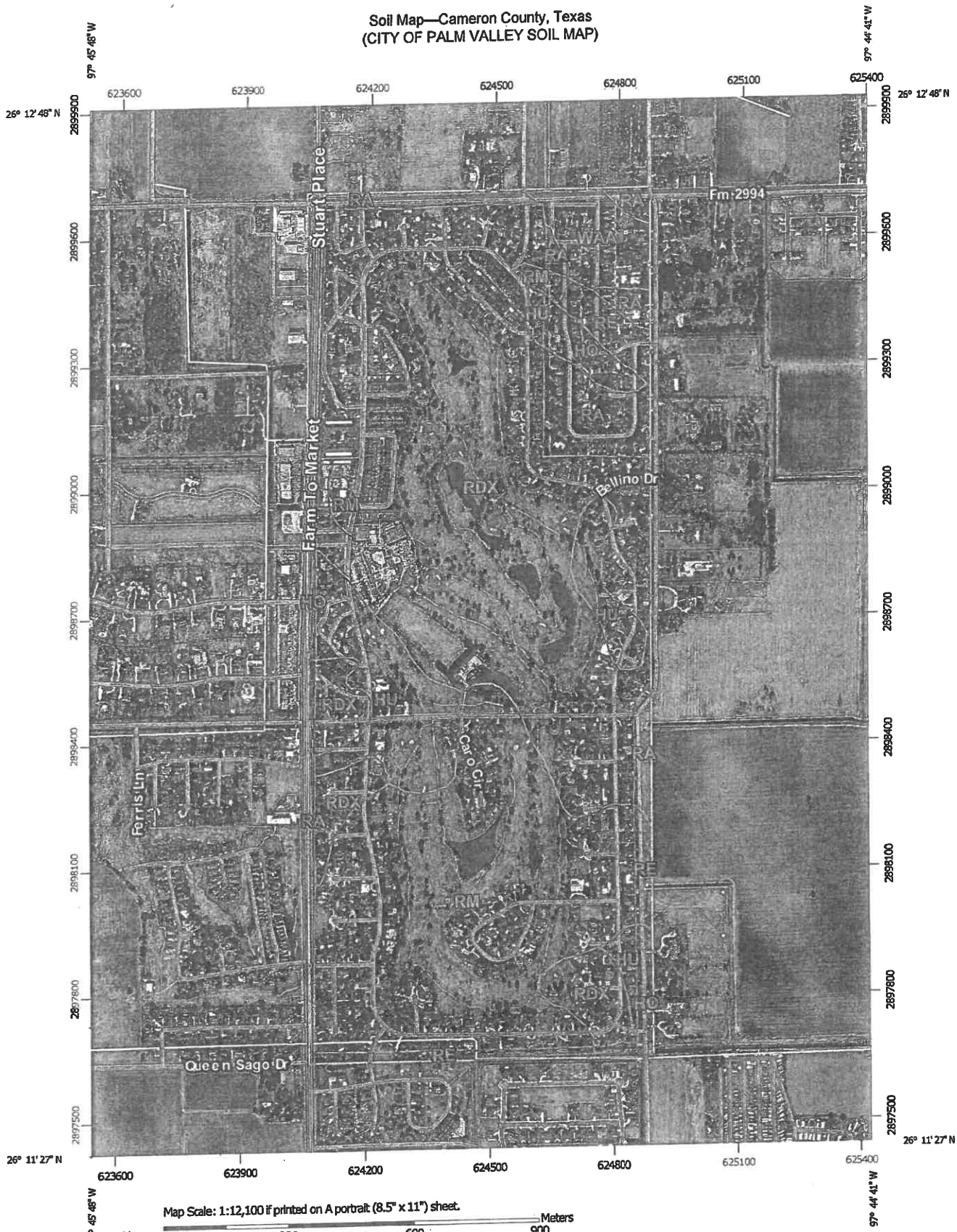
ATTACHMENT "O"
GROUND WATER QUALITY REPORT

GROUND WATER QUALITY TECHNICAL REPORT

The impact of the Effluent Wastewater Disposed via a sprinkler type irrigation on the Golf Course is considered negligible. The effluent wastewater is blended with sewer water and/or irrigation water applied to turf grass at a net rate of 2.25 (3.6 max) acre feet per year. The dry/hot & windy climate of South Texas results in a high evaporation rate with minimal (less than 4") subsurface water penetration. The diluted effluent does not reach the groundwater.

ATTACHMENT "P"
SOIL MAP

Soil Map—Cameron County, Texas
(CITY OF PALM VALLEY SOIL MAP)



Map Scale: 1:12,100 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
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: Cameron County, Texas
Survey Area Data: Version 10, Sep 29, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 10, 2010—Jan 25, 2011

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

Cameron County, Texas (TX061)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HO	Hidalgo sandy clay loam, 0 to 1 percent slopes	10.7	2.5%
HU	Hidalgo-Urban land complex, 0 to 1 percent slopes	36.4	8.6%
RA	Racombes sandy clay loam	33.6	7.9%
RDX	Racombes soils and urban land	201.5	47.5%
RE	Raymondville clay loam	13.6	3.2%
RM	Raymondville-Urban land complex	116.3	27.4%
WAA	Willacy fine sandy loam, 0 to 1 percent slopes	12.3	2.9%
Totals for Area of Interest		424.3	100.0%

ATTACHMENT "Q"
SOIL ANALYSIS

on ice, sealed and transported with Chain-of-Custody documentation to A&B Laboratories in Houston, Texas. The table below summarizes the laboratory analytical results from the sampling event.

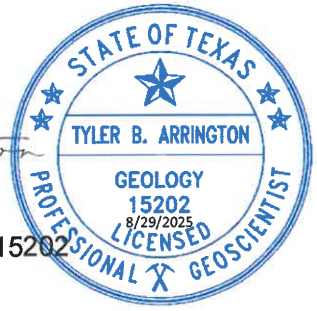
Summary of Analytical Testing Results Annual Sampling Event 5400 Bougainvillea Drive Irrigation Site Sampling Date: August 14, 2025			
Analytical Parameter	**Sample Depth (in.)**		
Depth	**Comp-1 (0-6")**	**Comp-2 (12-18")**	**Comp-3 (18-24")**
Total Nitrogen (mg/Kg)	1870	444	192
Total Potassium (mg/Kg)	4250	3080	5280
Phosphorus (mg/Kg)	1080	361	395
Conductance(umho/cm)	554	352	2770
TKN (mg/Kg)	1850	444	192

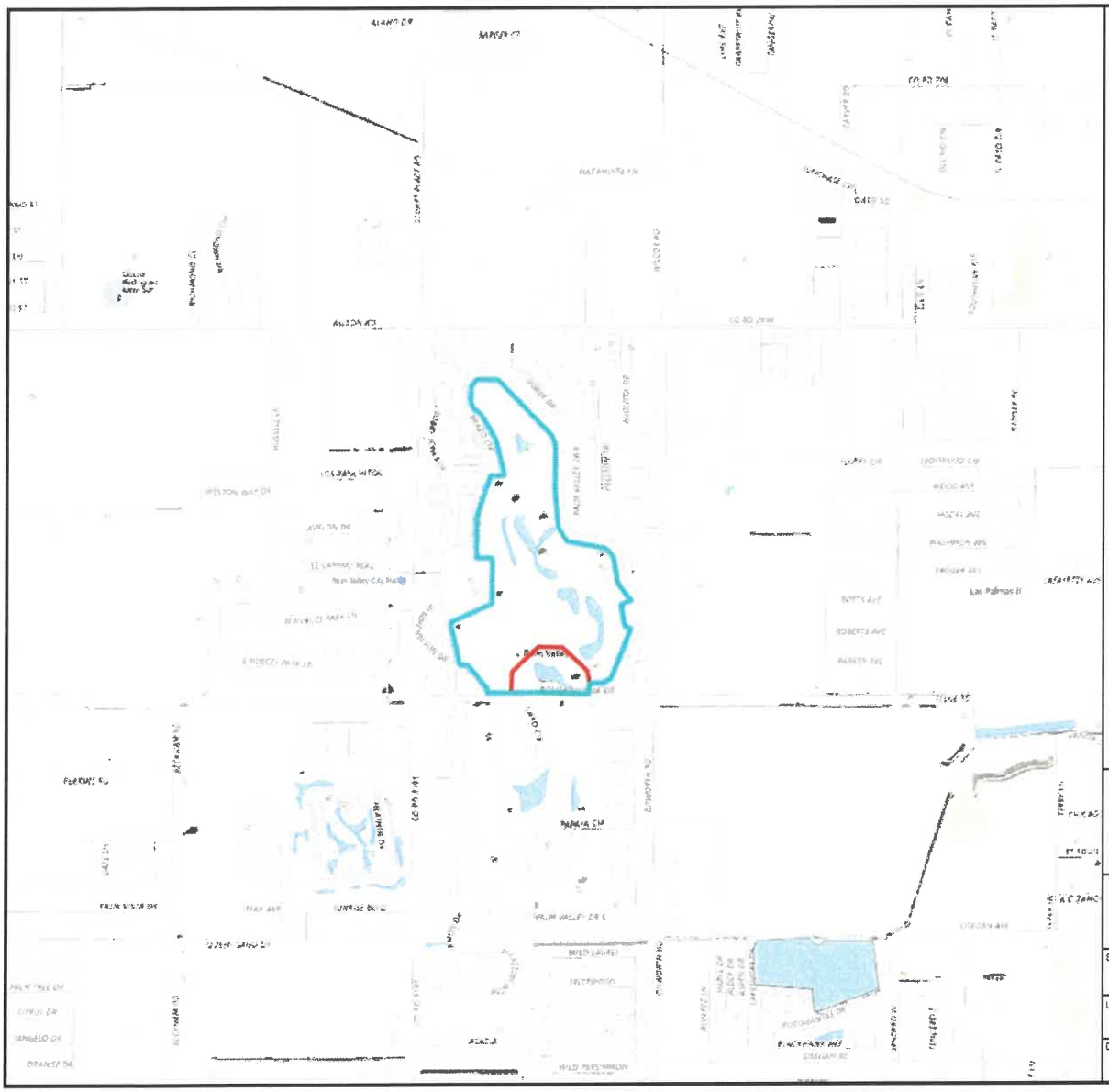
If you have any questions or commen1850ts on these results, please contact me at the office at 956-277-4190.

Respectfully,

Briana Garcia
Staff Environmental Scientist

Tyler Arrington
Senior Project Manager
Professional Geoscientist 15202





LEGEND

- Property Boundary
- WWTP Project Area

N

0 1,590 3,180

Approximate Scale (feet)

UES
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Site Location Map

SITE: City of Palm Valley WWTP			PM: TA
LOCATION: 5400 Bougainvillea Dr. Palm Valley, TX 78552			CHECKED: TA
DETAILED: 8/28/25	DESIGNED: BG	PROJECT NO: E25039-101	FIGURE: 1



LEGEND

- Property Boundary
- WWTP Project Area
- Soil Samples

N

0 300 600

Approximate Scale (feet)

UES
14731 Pebble Bend Drive
Houston, Texas 77068
(281) 580-8892 FAX (281) 580-8853

Soil Sample Location Map

SITE: City of Palm Valley WWTP			PM: TA
LOCATION: 5400 Bougainvillea Dr. Palm Valley, TX 78552			CHECKED: TA
DETAILED: 8/28/25	DESIGNED: BG	PROJECT NO: E25039-101	FIGURE: 2

ATTACHMENT 1
Laboratory Data Package and Data Usability Summary

Laboratory Analysis Report

Total Number of Pages: 26

Job ID : 25081549

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
E25039-101 / City of Palm Valley WWTP

Report To :	Client Name:	UES Professional Solutions #64	P.O.#.:
	Attn:	Briana Garcia	Sample Collected By: Briana Garcia
	Client Address:	14731 Pebble Bend Drive	Date Collected: 08/14/25
	City, State, Zip:	Houston, Texas, 77068	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Comp 1 (0'-6')	Soil	25081549.01
Comp 2 (12'-18')	Soil	25081549.02
Comp 3 (18'-24')	Soil	25081549.03
Effluent S-1	Water	25081549.04

Released By: Dhamodharan Shanmugam
Title: Reporting Associate
Date: 8/26/2025

This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2025; Expires: 03/31/2026
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

Date Received : 08/15/2025 10:13

25.1.38888

Report Number: RPT250826050

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 25081549

Date: 8/26/2025

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RLU	Relative Light Unit
J	Estimation. Below calibration range but above MDL	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
LOD	Limit of detection adjusted for %M + DF	SQL	Sample Quantitation Limit
LOQ	Limit of Quantitation adjusted for %M + DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
MQL	Unadjusted Minimum Quantitation Limit		

Qualifier Definition

D9	The method-required sample volume was not analyzed to meet the 2.5 mg minimum residue requirement due to prolonged time of filtration or limited sample volume available. The accuracy of the results is confirmed.
H2	Initial analysis within holding time. Re-analysis was past holding time.
H3	Sample was received and analyzed past holding time.
M1	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference. "The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
M6	Sample concentration high, more than 4X spike concentration. Control limits do not apply."The sample randomly selcted as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."

LABORATORY TEST RESULTS

Job ID : 25081549

Date 8/26/2025

Client Name: UES Professional Solutions #64

Attn: Briana Garcia

Project Name: E25039-101 / City of Palm Valley WWTP

Client Sample ID: Comp 1 (0'-6')
Date Collected: 08/14/25
Time Collected: 10:16
Other Information:

Job Sample ID: 25081549.01
Sample Matrix Soil
% Moisture 13.3

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	13.3	%	1	0.100			08/19/25 14:15	BR
EPA 300.0	Water Soluble Anions								
	Nitrate/Nitrite as N*	19.1	mg/Kg	1.00	1.15			08/20/25 14:40	GPR
	Nitrate-N*	19.1	mg/Kg	1.00	1.15			08/20/25 14:40	GPR
	Nitrite-N*	BRL	mg/Kg	1.00	1.15			08/20/25 14:40	GPR
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN[2]*	1850	mg/Kg	9.48	43.7			08/15/25 23:50	SKC
EPA351.2/EPA351.4/EPA353.2/EPA300.0									
	Total Nitrogen[1]*	1870	mg/Kg	1	1.15			08/22/25 14:15	SKC
ASTM D4940	Electrical Conductivity								
	Conductance[2]*	554	umho/cm @ 25°C	1	5.77			08/19/25 11:00	SS
SW-846 6010D	Total Metals								
	Potassium*	4250	mg/Kg	20	115			08/20/25 13:48	RT
SW-846 6010D									
	Phosphorus*	1080	mg/Kg	20	11.5			08/20/25 13:48	RT

ab-q212-0321
Soil results reported on dry weight basis

LABORATORY TEST RESULTS

Job ID : 25081549

Date 8/26/2025

Client Name: UES Professional Solutions #64

Attn: Briana Garcia

Project Name: E25039-101 / City of Palm Valley WWTP

Client Sample ID: Comp 2 (12'-18')
Date Collected: 08/14/25
Time Collected: 10:23
Other Information:

Job Sample ID: 25081549.02
Sample Matrix Soil
% Moisture 6.58

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	6.58	%	1	0.100			08/19/25 14:15	BR
EPA 300.0	Water Soluble Anions								
	Nitrate/Nitrite as N*	BRL	mg/Kg	1.00	1.07			08/20/25 15:06	GPR
	Nitrate-N*	BRL	mg/Kg	1.00	1.07			08/20/25 15:06	GPR
	Nitrite-N*	BRL	mg/Kg	1.00	1.07			08/20/25 15:06	GPR
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN[2]*	444	mg/Kg	9.81	42.0			08/15/25 23:52	SKC
EPA351.2/EPA351.4/EPA353.2/EPA300.0									
	Total Nitrogen[1]*	444	mg/Kg	1	1.07			08/22/25 14:15	SKC
ASTM D4940	Electrical Conductivity								
	Conductance[2]*	352	umho/cm @ 25°C	1	5.35			08/19/25 11:00	SS
SW-846 6010D	Total Metals								
	Potassium*	3080	mg/Kg	20	107			08/20/25 15:06	RT
SW-846 6010D									
	Phosphorus*	361	mg/Kg	20	10.7			08/20/25 15:06	RT

ab-q212-0321
Soil results reported on dry weight basis

LABORATORY TEST RESULTS

Job ID : 25081549

Date 8/26/2025

Client Name: UES Professional Solutions #64

Attn: Briana Garcia

Project Name: E25039-101 / City of Palm Valley WWTP

Client Sample ID: Comp 3 (18'-24')
Date Collected: 08/14/25
Time Collected: 10:36
Other Information:

Job Sample ID: 25081549.03
Sample Matrix Soil
% Moisture 17.8

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	17.8	%	1	0.100			08/19/25 14:15	BR
EPA 300.0	Water Soluble Anions								
	Nitrate/Nitrite as N*	BRL	mg/Kg	1.00	1.22			08/20/25 15:33	GPR
	Nitrate-N*	BRL	mg/Kg	1.00	1.22			08/20/25 15:33	GPR
	Nitrite-N*	BRL	mg/Kg	1.00	1.22			08/20/25 15:33	GPR
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN[2]*	192	mg/Kg	9.77	47.5			08/15/25 23:54	SKC
EPA351.2/EPA351.4 /EPA353.2/EPA300. 0									
	Total Nitrogen[1]*	192	mg/Kg	1	1.22			08/22/25 14:15	SKC
ASTM D4940	Electrical Conductivity								
	Conductance[2]*	2770	umho/cm @ 25°C	1	6.08			08/19/25 11:00	SS
SW-846 6010D	Total Metals								
	Potassium*	5280	mg/Kg	20	122			08/20/25 15:13	RT
SW-846 6010D									
	Phosphorus*	395	mg/Kg	20	12.2			08/20/25 15:13	RT

ab-q212-0321
Soil results reported on dry weight basis

LABORATORY TEST RESULTS

Job ID : 25081549

Date 8/26/2025

Client Name: UES Professional Solutions #64 Attn: Briana Garcia

Project Name: E25039-101 / City of Palm Valley WWTP

Client Sample ID: Effluent S-1
Date Collected: 08/14/25
Time Collected: 10:46
Other Information:

Job Sample ID: 25081549.04
Sample Matrix Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2510B	Conductivity								
	Conductance	2580	umho/cm @ 25°C	1	2.00			08/19/25 11:30	SS
SM 2540C	Total Dissolved Solids								
	TDS	1490	mg/L	5.00	50.0			08/18/25 17:00	AL
SM 2540D	Total Suspended Solids								
	TSS	12.0	mg/L	0.400	1.0		D9	08/18/25 18:02	AL
EPA 300.0	Anions								
	Chloride	452	mg/L	50.00	5.00			08/16/25 17:47	GPR
	Nitrate-N	44.0	mg/L	50.00	5.00		H2	08/16/25 17:47	GPR
	Sulfate	327	mg/L	50.00	5.00			08/16/25 17:47	GPR
EPA 350.1									
	Ammonia as N	BRL	mg/L	1.00	0.100			08/19/25 16:23	SKC
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN	0.655	mg/L	1.00	0.200			08/15/25 23:32	SKC
SM 4500Cl-G	Chlorine, as Total Residual								
	Chlorine, Free[1]	0.120	mg/L	1	0.0500		H3	08/19/25 13:05	SS
	Chlorine, Total	0.480	mg/L	1	0.0500		H3	08/19/25 13:05	SS
SM 4500H B	Corrosivity, pH								
	pH	7.10	s.u.				H3	08/18/25 09:00	BR
	Temperature when read, °C[2]	21.1	s.u.				H3	08/18/25 09:00	BR
SM 4500O-G	Dissolved Oxygen								
	Dissolved Oxygen	10.56	mg/L	1	0.1		H3	08/22/25 13:00	SP
SM 5210B	Carbonaceous Biochemical Oxygen Demand								
	CBOD	BRL	mg/L	1	2			08/15/25 18:00	SP

ab-q212-0321
Soil results reported on dry weight basis
[1]-Parameter is not accredited.
[2]-Parameter not available for accreditation.
*-Moisture Attached

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : **Anions** **Method :** **EPA 300.0** **Reporting Units :** **mg/L**

QC Batch ID : Qb25081701 **Created Date :** 08/16/25 **Created By :** PReddy

Samples in This QC Batch : 25081549.04

Sample Preparation : PB25081547 **Prep Method :** EPA 300.0 **Prep Date :** 08/15/25 15:30 **Prep By :** PReddy

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	Chloride	16887-00-6	BRL	mg/L	1.00	0.1		
Method Blank	Nitrate-N	14797-55-8	BRL	mg/L	1.00	0.1		
Method Blank	Sulfate	14808-79-8	BRL	mg/L	1.00	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	1	0.952	95.2	1	0.960	96	0.8	20	90-110	
Nitrate-N	1	1.02	102	1	1.01	101	1.4	20	90-110	
Sulfate	1	0.913	91.3	1	0.962	96.2	5.2	20	90-110	

QC Type: MS and MSD
QC Sample ID: 25081306.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	161	50	218	114						80-120	
Nitrate-N	BRL	50	64.8	130						80-120	M1
Sulfate	119	50	168	99.9						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : **Method :** **SM 4500H B** **Reporting Units :** **s.u.**

QC Batch ID : Qb25081848 **Created Date :** 08/18/25 **Created By :** BRose

Samples in This QC Batch : 25081549.04

QC Type: Duplicate

QC Sample ID: 25080839.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
pH	7.5	7.5	s.u.	0.0	5		H3

QC Type: LCS and LCSD

Parameter	LCS Assigned	LCS Result		LCSD Assigned	LCSD Result		RPD	RPD CtrlLimit	Tolerance	Qual
pH	4.0	4.00							98.75-101.25	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : **Total Kjeldahl Nitrogen** **Method :** **EPA 351.2** **Reporting Units :** **mg/Kg**

QC Batch ID : Qb25081875 **Created Date :** 08/15/25 **Created By :** Srijan

Samples in This QC Batch : 25081549.01,02,03

Sample Preparation : PB25081834 **Prep Method :** EPA 351.2_ **Prep Date :** 08/15/25 14:00 **Prep By :** Srijan

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	TKN		BRL	mg/Kg	0.09	0.36		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TKN	19.2	20.0	104	19.8	20.5	104	2.3	20	90-110	

QC Type: MS and MSD
QC Sample ID: 25081195.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TKN	7820	19.7	7900	428	19.6	7760	-312.5989	1.9	10	90-110	M6

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Total Kjeldahl Nitrogen **Method :** EPA 351.2 **Reporting Units :** mg/L

QC Batch ID : Qb25081876 **Created Date :** 08/15/25 **Created By :** Srijan

Samples in This QC Batch : 25081549.04

Sample Preparation : PB25081836 **Prep Method :** EPA 351.2_ **Prep Date :** 08/15/25 19:00 **Prep By :** Srijan

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	TKN		BRL	mg/L	1.00	0.2		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TKN	1	0.953	95.3	1	0.959	95.9	0.7	10	90-110	

QC Type: MS and MSD
QC Sample ID: 25081404.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TKN	0.565	1	1.60	104	1	1.61	104	0.3	10	90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Total Dissolved Solids **Method :** SM 2540C **Reporting Units :** mg/L

QC Batch ID : Qb25081883 **Created Date :** 08/18/25 **Created By :** ALassile

Samples in This QC Batch : 25081549.04

Sample Preparation : PB25081845 **Prep Method :** SM 2540C **Prep Date :** 08/18/25 14:30 **Prep By :** ALassile

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	TDS	TDS	BRL	mg/L	1	10		

QC Type: Duplicate

QC Sample ID: 25081549.04

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TDS	1520	1490	mg/L	2	5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	482	96.4						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : **Method :** **EPA 350.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb250819108 **Created Date :** 08/19/25 **Created By :** Srijan

Samples in This QC Batch : 25081549.04

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	Ammonia as N	NH3-N	BRL	mg/L	1.00	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ammonia as N	1	1.03	103	1	1.04	104	1	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 25081682.01

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Ammonia as N	3.22	1	4.21	99.5	1	4.22	100.3	0.3	10	90-110	

QC Type: MS2 and MSD2
QC Sample ID: 25081527.01

Parameter	Sample Result	MS2 Spk Added	MS2 Result	MS2 % Rec	MSD2 Spk Added	MSD2 Result	MSD2 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Ammonia as N	BRL	1	1.01	101	1	1.01	101	0.4	10	90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Total Suspended Solids **Method :** SM 2540D **Reporting Units :** mg/L

QC Batch ID : Qb25081921 **Created Date :** 08/19/25 **Created By :** ALassile

Samples in This QC Batch : 25081549.04

Sample Preparation : PB25081912 **Prep Method :** SM 2540D **Prep Date :** 08/18/25 18:01 **Prep By :** ALassile

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	TSS	TSS	BRL	mg/L	1	2.50		

QC Type: Duplicate

QC Sample ID: 25081544.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TSS	1.2	1.2	mg/L	0.0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TSS	500	446	89.2						72-108	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Conductivity **Method :** ASTM D4940 **Reporting Units :** umho/cm @ 2

QC Batch ID : Qb25081969 **Created Date :** 08/19/25 **Created By :** SShukla

Samples in This QC Batch : 25081549.01,02,03

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	Conductance		BRL	umho/cm @ 25°C	1	5		

QC Type: Duplicate

QC Sample ID: 25081549.03

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Conductance	2280	2280	umho/cm	0.0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Conductance	100	102.5	103.0						90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Conductivity **Method :** SM 2510B **Reporting Units :** umho/cm @ 2

QC Batch ID : Qb25081972 **Created Date :** 08/19/25 **Created By :** SShukla

Samples in This QC Batch : 25081549.04

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	Conductance		BRL	umho/cm @ 25°C	1	2		

QC Type: Duplicate

QC Sample ID: 25081687.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Conductance	4660	4660	umho/cm	0.0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Conductance	100	102.5	103.0						90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Chlorine, as Total Residual **Method :** SM 4500Cl-G **Reporting Units :** mg/L

QC Batch ID : Qb25081975 **Created Date :** 08/19/25 **Created By :** SShukla

Samples in This QC Batch : 25081549.04

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	Chlorine, Free		BRL	mg/L	1	0.05		
Method Blank	Chlorine, Total		BRL	mg/L	1	0.05		

QC Type: Duplicate

QC Sample ID: 25081632.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Chlorine, Free	BRL	BRL	mg/L	0	20		
Chlorine, Total	BRL	BRL	mg/L	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chlorine, Free	1	0.97	97.0	1	0.97	97.0	0.0	20	79-113	
Chlorine, Total	1	1.03	103.0	1	1.02	102.0	1	20	79-113	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : % Moisture **Method :** SM 2540G **Reporting Units :** %

QC Batch ID : Qb25081982 **Created Date :** 08/19/25 **Created By :** BRose

Samples in This QC Batch : 25081549.01,02,03

Sample Preparation : PB25081934 **Prep Method :** SM 2540G **Prep Date :** 08/19/25 14:00 **Prep By :** BRose

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	% Moisture		BRL	%	1	0.1		

QC Type: Duplicate

QC Sample ID: 25081488.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
% Moisture	1.50	1.37	%	9.1	20		

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Anions **Method :** EPA 300.0 **Reporting Units :** mg/Kg

QC Batch ID : Qb25082034 **Created Date :** 08/20/25 **Created By :** PReddy

Samples in This QC Batch : 25081549.01,02,03

Sample Preparation : PB25082014 **Prep Method :** EPA 300.0 **Prep Date :** 08/20/25 10:45 **Prep By :** PReddy

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	Chloride	16887-00-6	BRL	mg/Kg	1.00	1		
Method Blank	Nitrate/Nitrite as N		BRL	mg/Kg	1.00	1		
Method Blank	Nitrate-N	14797-55-8	BRL	mg/Kg	1.00	1		
Method Blank	Nitrite-N	14797-65-0	BRL	mg/Kg	1.00	1		
Method Blank	Sulfate	14808-79-8	BRL	mg/Kg	1.00	1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	10	9.57	95.7	10	9.45	94.5	1.3	20	90-110	
Nitrate/Nitrite as N	20	20.9	104	20	21.1	106	1.2	20	90-110	
Nitrate-N	10	10.2	102	10	10.4	104	2.2	20	90-110	
Nitrite-N	10	10.7	107	10	10.7	107	0.1	20	90-110	
Sulfate	10	9.49	94.9	10	9.47	94.7	0.2	20	90-110	

QC Type: MS and MSD
QC Sample ID: 25081514.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	41.4	10	54.9	134						80-120	M1
Nitrate/Nitrite as N	BRL	20	24.3	121						80-120	M1
Nitrate-N	BRL	10	12.3	123						80-120	M1
Nitrite-N	BRL	10	12.0	120						80-120	
Sulfate	69.8	10	86.1	163						80-120	M1

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Total Recoverable Metals **Method :** SW-846 6010D **Reporting Units :** mg/Kg

QC Batch ID : Qb25082089 **Created Date :** 08/20/25 **Created By :** Rajeev

Samples in This QC Batch : 25081549.01,02,03

Digestion : PB25082031 **Prep Method :** SW-846 3050B **Prep Date :** 08/20/25 09:30 **Prep By :** M_Gonzalez

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
ICB	Potassium	7440-09-7	BRL	mg/Kg	1	5		
Method Blank	Potassium	7440-09-7	BRL	mg/Kg	1	5		

QC Type: Duplicate

QC Sample ID: 25081549.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Potassium	3530	3690	mg/Kg	4.4	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Potassium	250	255	102	250	253	101	0.7	20	80-116	

QC Type: MS and MSD

QC Sample ID: 25081549.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Potassium	3690	250	4050	145						75-125	M6

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Total Recoverable Metals **Method :** SW-846 6010D **Reporting Units :** mg/Kg

QC Batch ID : Qb25082090 **Created Date :** 08/20/25 **Created By :** Rajeev

Samples in This QC Batch : 25081549.01,02,03

Digestion : PB25082032 **Prep Method :** SW-846 3050B **Prep Date :** 08/20/25 09:30 **Prep By :** M_Gonzalez

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
ICB	Phosphorus	7723-14-0	BRL	mg/Kg	1	0.5		
Method Blank	Phosphorus	7723-14-0	BRL	mg/Kg	1	0.5		

QC Type: Duplicate

QC Sample ID: 25081549.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Phosphorus	931	940	mg/Kg	1	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Phosphorus	25	25.4	102	25	25.2	101	0.7	20	80-120	

QC Type: MS and MSD

QC Sample ID: 25081549.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phosphorus	940	25	904	-146.5320						80-120	M6

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : Carbonaceous Biochemical Oxygen Demand **Method :** SM 5210B **Reporting Units :** mg/L

QC Batch ID : Qb25082132 **Created Date :** 08/15/25 **Created By :** sadeshp

Samples in This QC Batch : 25081549.04

Sample Preparation : PB25081557 **Prep Method :** SM 5210B **Prep Date :** 08/15/25 18:00 **Prep By :** sadeshp

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Method Blank	CBOD		BRL	mg/L	1	0.20		

QC Type: Duplicate

QC Sample ID: 25081549.04

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
CBOD	BRL	BRL	mg/L	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
CBOD	198	180.00	90.9	198	174.00	87.9	3.4	20	84.6-115	

QUALITY CONTROL CERTIFICATE

Job ID : 25081549 **Date :** 8/26/2025

Analysis : **Dissolved Oxygen** **Method :** **SM 4500O-G** **Reporting Units :** **mg/L**

QC Batch ID : Qb25082255 **Created Date :** 08/22/25 **Created By :** sadeshp

Samples in This QC Batch : 25081549.04

QC Type: Duplicate

QC Sample ID: 25081549.04

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Dissolved Oxygen	10.60	10.56	mg/L	0.4	20		

A & B Labs **Chain of Custody** The Chain of Custody is a Legal Document Page 1 of 1

Job ID:25081549

08/15/2025 UES Professional Solution ACH

ablabs.com

REPORT TO:		2. INVOICE TO:	
Company:	UES	Company:	SAME
Address:	14731 Pebble Bend Dr. Houston, TX 77068	Address:	
Contact:	Briana Garcia	Contact:	
Phone:	(956) 970-7489	Phone:	
Fax:		Fax:	
E-mail:	bgarcia1@teamues.com	E-mail:	

A&B JOB ID #

5. Project # E25039-101

6. Project Name/Location: City of Palm Valley WWTP

7. Reporting Requirement:

☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II ☐ PST ☐ MDL ☐ EDD

3. PO #

3a. A&B Quote #

4. Turnaround Time (Business Days)

☐ 1 Day* ☐ Other:

☐ 2 Days*

☐ 3 Days* *Surcharge applies

☑ 7 Days Standard

8. Sampler's Name & Company (PLEASE PRINT): Briana Garcia UES

Sampler's Signature & Date: Briana Garcia 8/14/25

LAB USE ONLY	9. Sample ID and Description	10. Sampling Date	10. Sampling Time 24hr	11. Comp.	11. Grab	12. Matrix Water	Soil	Sludge	Oil	Drinking Water	Air	Other	No. of Containers	Analyses/Methods: See Attached	TDS	TSS	CBOD	Anions	Conductivity	Ammonia, TKN	18. REMARKS
01A	Comp 1 (0-6")	8/14/25	10:16	✓			✓						1	✓							See Attached
02A	Comp 2 (12-18")		10:23	✓			✓						1	✓							
03A	Comp 3 (18-24")		10:36	✓			✓						1	✓							
04F	Effluent S-1	↓	10:46	✓	✓								6		✓	✓	✓	✓	✓	✓	

	19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1	Briana Garcia	8/14/25	11:27	FEDEX		
2	FEDEX	8/15/25	10:13		8/15/25	10:13
3						

21. KNOWN HAZARDS/COMMENTS

Temperature 2.0 C

Thermometer ID IR10

Intact Y or N Initials MC

A&B cannot accept verbal changes. Please FAX written changes to 713-453-6091

Samples will be disposed of after 30 days. A&B reserves the right to return samples.

*Containers: VOA - 40 ml vial; 4 oz/8 oz - glass wide mouth; A/G - Amber/Glass 1 Liter; P/O - Plastic/other

**Preservatives: C - Cool; OH - NaOH; H - HCl; T - $NA_2S_2O_3$; N - HNO_3; X - Other; S - H_2SO_4

METHOD OF SHIPMENT

BILL OF LADING/TRACKING #

LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____ Supplies _____ Field Work _____

ab-s001-0516

Outlook

E25039-101 PVWWTP Palm Valley, TX

From Briana Garcia <bgarcia1@teamues.com>
Date Mon 8/11/2025 9:15 AM
To Alisha Hughes <alishar@ablabs.com>

Good morning,

I hope you are doing well! Can you please send me the sampling containers to arrive on Wednesday?

Water (1 sample):
Chemical Biological Oxygen Demand
TSS
Inorganic anions- sulfate, nitrate and chloride
TDS
Specific Conductance
Residual Chlorine
DO
pH
Ammonia Nitrogen
TKN
Fecal Coliform
Enterococci

Soil (3 samples):
Total Nitrogen
Total Potassium
TKN
Phosphorus
Conductivity

Please let me know if you have any questions.

Thank you,
Briana Garcia
Staff Environmental Scientist
UES
11818 W Business Highway 83, Unit 1
La Feria, Texas 78559
Direct: 956.277.4190
Cell: 956.970.7489

ORIGIN ID:MIFA (281) 580-8892
UES PROFESSIONAL SOLUTIONS 64, LLC
14731 PEBBLE BEND DRIVE
HOUSTON, TX 77068
UNITED STATES US

SHIP DATE: 14AUG25
ACTWGT: 25.00 LB
CAD: 5662607/INET4535

BILL SENDER

TO **ALISHA HUGHES**
A&B LABS
10100 EAST FREEWAY
SUITE 100
HOUSTON TX 77029
(713) 453-6060 REF:
INV:
PO: DEPT:

58GJ/AB5569F2

FedEx Express

FRI - 15 AUG 10:30A
PRIORITY OVERNIGHT

TRK#: 0201 8835 7284 3680

77029
TX-US IAH

43 HBYA

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Sample Condition Checklist

A&B JobID : **25081549**	Date Received : **08/15/2025**	Time Received : **10:13AM**
Client Name : **UES Professional Solutions #64**		
Temperature : **2.0**	Sample pH : **<2 NH3, TKN**	
Thermometer ID : **IR10**	pH Paper ID : **128919**	
Perservative :	Lot# :	

	Check Points	Yes	No	N/A
1.	**Cooler Seal present and signed.**	X		
2.	**Sample(s) in a cooler.**	X		
3.	**If yes, ice in cooler.**	X		
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If No comment)**	X		
8.	**Matrix:** Water ☑ Soil ☑ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**	X		
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

SX01-SX03=Soil. SX04=Water. AM 08/15/25. SX04 DNR container for Entero and Fecal Coliform. ~MC 08/19/2025

Brought by : FedEx

Received by : MClotfelter

Check in by/date : Amber / 08/15/2025

ab-s005-1123

Corpus Christi Water Department

City of Corpus Christi
Water Utilities Laboratory
13101 Leopard Street
361-826-1200 Fax: 361-242-9131

Analytical Report

Client Info UES
11818 W BUSINESS HWY 83, UNIT 1
LA FERIA, TX 78559
956-201-4797

Phone:

EMAIL: bGARCIA1@TEAMUES.COM

Report# /Lab ID#: AC64578 **Report Date:** 8/15/25
Sample Name: S-1
Date Received: 08/14/2025 **Time:** 13:56
Date Sampled: 08/14/2025 **Time:** 10:47

Parameter	Result	Unit	Flag	RL 5	Date/Time Analyzed	Method	Analyst	Analysis Comments
Fecal Coliform MPN	<1.0	MPN	OA		8/14/25 14:26	Colilert 18	MONICAS	

Sample Comments:

This analytical report is respectfully submitted by the Water Utilities Laboratory. The enclosed results reflect only the sample(s) identified above. The results have been carefully reviewed and, unless otherwise indicated, meet the NELAC requirements as described by the Water Utilities Lab's QA/QC program. No part of this report shall be reproduced or transmitted in any form or by any means without the written consent of the City of Corpus Christi-Water Utilities Lab.

Respectfully Submitted,

Technical Director (or designee)

1. Quality assurance data for the sample batch which included this sample.
2. Precision (PREC) is the absolute value of the relative percent difference between duplicate results.
3. Recovery (RECOV) is the percent of analyte recovered from a spiked sample.
4. Laboratory Control Sample (LCS) results are expressed as the percent recovery of analyte.
5. Reporting Limit (RL), typically at or above the Limit of Quantitation (LOQ) of the analytical method.
6. Data Qualifiers:

N=Analysis not performed as per client request. **H**=Sample exceeded holding time. **P**=Analysis is from an unpreserved sample. **J**=Value reported is less than the RL but greater than the MDL. **X**=MS/MSD recovery or duplicates analysis exceeded the acceptance limit or Standard failed. **LA**=Lab accident. **LE**=Lab error. **OA**=Outside the scope of the lab's NELAC accreditation. **U**=Unsuitable; sample turned turbid after incubation. **T**=Sample below temp requirement; not on ice. **EQ**=Equipment failure. **I**=Information on sample bottle and COC does not match. **S**=Slow to filter; sample contains floc and/or large amount of residue on filter. **O**=Analysis performed by an outside NELAC accredited lab; **O^**=Analysis flagged by outside laboratory. **Z**=Too many colonies present to provide a result (TNTC). **A**=Value reported is the mean of two or more determinations. **R**=Reagent water contamination suspected. **B**=Sample broken in transit. **NI**=Not analyzed due to interferences. **K**=BOD result estimated due to blank exceeding the allowable oxygen depletion. **D**=Sample dilution required for analysis/ quality control. **SC**=BOD/CBOD calculated using a seed correction factor not within acceptable range. **QB**=No QC data assigned to sample; sample result not affected. **EL**=Oxygen usage is less than 2mg/L for all dilutions analyzed. The reported value is an estimated less than value and is calculated for the dilution containing the greatest concentration of sample. **EG**=Less than 1mg/L DO remained for all dilutions analyzed. The reported value is an estimated greater than value and is calculated for the dilution containing the least concentration of sample. **E**= The data exceed the upper calibration limit; therefore the concentration is reported as an estimate.

CHAIN OF CUSTODY RECORD

Client Name: UES
Address: 14731 Pebble Bend Drive
City: Houston State: TX Zip: 77068
Phone: (956) 970-7489 Fax:
PWS ID (if applicable):

City of Corpus Christi

Water Utilities Laboratory
P.O. Box 9277
Corpus Christi, TX 78469
Ph: (361) 826-1200
Fax: (361) 242-9131

Sampler (PLEASE PRINT): Briana Garcia

Sample ID	Lab ID# (Lab Use Only)	Date Sampled	Time Sampled	Grab	Composite	Other	No. of Containers/ Preservative: H_2SO_4	HNO_3	Thio	None	Matrix: WW Influent	WW Effluent	Water	Other-Specify	Residual Chlorine: Total mg/L	Free mg/L	cBOD	BOD	TSS	TDS	Ammonia-N	TKN	Chloride	Sulfate	Phosphorus	Nitrate	Nitrite	Total Alkalinity	TOC	Fecal Coliform	Total Coliform	Enterococci	E. coli	Other *
S-1	AC64578	8/14/25	10:47	✓					✓		✓				N/A															✓				
S-1	AC64579	8/14/25	10:48	✓					✓		✓				N/A																	✓		

Relinquished By: Briana Garcia	Date: 8/14/25	Time: 13:56	Special Instructions/Comments:
Received By: [signature]	Date: 8/14/25	Time: 1356	Other * -
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	***** For Laboratory Use Only *****
Received By:	Date:	Time:	Sample(s) on ice: YES NO — pH Strip Lot/ID:
Relinquished By:	Date:	Time:	Receiving Temp (°C): 5.6 — pH < 2? YES NO Line(s) #:
Received By:	Date:	Time:	Corrected Temp (°C): 5.6 — Data Flag(s):

Corpus Christi Water Department

City of Corpus Christi
Water Utilities Laboratory
13101 Leopard Street
361-826-1200 Fax: 361-242-9131

Analytical Report

Client Info UES
11818 W BUSINESS HWY 83, UNIT 1
LA FERIA, TX 78559
956-201-4797

Phone: **EMAIL:** bGARCIA1@TEAMUES.COM

Report# /Lab ID#: AC64579 **Report Date:** 8/15/25
Sample Name: S-1
Date Received: 08/14/2025 **Time:** 13:56
Date Sampled: 08/14/2025 **Time:** 10:48

Parameter	Result	Unit	Flag	RL s	Date/Time Analyzed	Method	Analyst	Analysis Comments
Enterococci	58.2	MPN		1.0	8/14/25 14:11	Enterolert	MONICAS	

Sample Comments:

This analytical report is respectfully submitted by the Water Utilities Laboratory. The enclosed results reflect only the sample(s) identified above. The results have been carefully reviewed and, unless otherwise indicated, meet the NELAC requirements as described by the Water Utilities Lab's QA/QC program. No part of this report shall be reproduced or transmitted in any form or by any means without the written consent of the City of Corpus Christi-Water Utilities Lab.

Respectfully Submitted,

Technical Director (or designee)

1. Quality assurance data for the sample batch which included this sample.
2. Precision (PREC) is the absolute value of the relative percent difference between duplicate results.
3. Recovery (RECOV) is the percent of analyte recovered from a spiked sample.
4. Laboratory Control Sample (LCS) results are expressed as the percent recovery of analyte.
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CHAIN OF CUSTODY RECORD

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City of Corpus Christi

Water Utilities Laboratory
P.O. Box 9277
Corpus Christi, TX 78469
Ph: (361) 826-1200
Fax: (361) 242-9131

Sampler (PLEASE PRINT): Briana Garcia

Sample ID	Lab ID# (Lab Use Only)	Date Sampled	Time Sampled	Grab	Composite	Other	No. of Containers/ Preservative: H_2SO_4	HNO_3	Thio	None	Matrix: WW Influent	WW Effluent	Water	Other-Specify	Residual Chlorine: Total mg/L	Free mg/L	cBOD	BOD	TSS	TDS	Ammonia-N	TKN	Chloride	Sulfate	Phosphorus	Nitrate	Nitrite	Total Alkalinity	TOC	Fecal Coliform	Total Coliform	Enterococci	E. coli	Other*
S-1	MC14578	8/14/25	10:47	✓					✓		✓				N/A															✓				
S-1	MC14579	8/14/25	10:48	✓					✓		✓				N/A																	✓		

Relinquished By:	Briana Garcia	Date: 8/14/25	Time: 13:56
Received By:		Date: 8/14/25	Time: 1356
Relinquished By:		Date:	Time:
Received By:		Date:	Time:
Relinquished By:		Date:	Time:
Received By:		Date:	Time:
Relinquished By:		Date:	Time:
Received By:		Date:	Time:

Special Instructions/Comments:
Other* -

***** For Laboratory Use Only *****

Sample(s) on ice: YES NO
Receiving Temp (°C): 5.6
Corrected Temp (°C): 5.6 R

pH Strip Lot/ ID:
pH < 27 YES NO Line(s) #:
Data Flag(s):

Data Usability Summary

City of Palm Valley WWTP
1313 Stuart Place Road, Palm Valley, TX 78552

A&B Analysis No. 25081549

UES Professional Solutions 64, LLC (UES) reviewed the data package from A & B Analytical (A&B) for the analysis of soil and water samples collected on August 14, 2025 at the City of Palm Valley WWTP property located at 1313 Stuart Place Road, Palm Valley, TX 78552. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) and adherence to project objectives. UES certifies that at the time the laboratory data were generated for the project, A&B was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. A copy of A&B's National Environmental Laboratory Accreditation Program certificate applicable to the period during which the laboratory generated the data in this report is included in Attachment 1 to this DUS.

Intended use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the soil and water at the affected property.

Analysis requested included:

- EPA 300.0: Inorganic Anions By Ion Chromatography
- EPA 351.2: Determination of Kjeldahl Nitrogen by Semi-Automated Colorimetry
- EPA353.2: Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry
- EPA 350.1: Determination of Ammonia by Semi-Automated Colorimetry
- SM 2510B: SM 2510B: Conductivity – Laboratory Method
- SM 2540C: Total Dissolved Solids by Gravimetric Determination
- SM 2540D: Total Suspended Solids
- SM 4500H B: Ammonia by selective electrode
- SM 4500O-G: Direct Measurement by pH reader
- SM 5210B: Conductivity – Laboratory Method

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13), and the results of the review/validation are discussed in this Data Usability Summary (DUS). The following laboratory submittal was examined:

- the reportable data
- the laboratory review checklist and associated exception reports
- the field notes with respect to field instrument calibrations, filtering procedures, sampling procedures, and preservation procedures prior to shipping the sample to the laboratory.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklists (LRCs), Exception Reports (ERs), and in the case narratives, all of which were included in this review.

The LRCs, associated ERs, and reportable data included in this review are attached to this DUS.

Introduction

Three (3) soil samples and one (1) water samples were submitted for laboratory analysis during this episode. The samples were analyzed for chlorides, sulfate, total chlorine, ammonia, TKN, Nitrate/Nitrite, specific conductivity, BCOD, dissolved oxygen (DO), Ph, Total Suspended Solids and Total Dissolved Solids (TDS). Table 1 lists the sample identifications cross-referenced to laboratory identifications.

Project Objectives

Inorganic Compounds
Recovery 75-125%
RPD 30%

Analytical Results

Please refer to Table 2 for a summary of qualified data. Additional samples were reported with "J" values that were between the SDL and MDL. The sample results with "J" values were not included in Table 2. Non-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule.

Soil analytical results are reported corrected for moisture content.

Preservation and Holding Times

Samples were evaluated for agreement with the chain-of-custody (C-O-C). All samples were received in the appropriate containers and in good condition with the paperwork filled out properly. Sample receipt temperatures were within the acceptance criteria of 4° ± 2 °C. Samples were preserved in the field as specified in SW-846 Table 2-40A and 2-40B. All samples were prepared and analyzed within holding times specified in SW-846 Table 2-40A and 2-40B. All soil samples were collected via EPA Method 5035.

Calibrations

According to the LRC, initial calibration and continuing calibration data met SW-846 method requirements for all analyses. The LRCs also document satisfactory instrument performance calibrations (GC/MS tunes) for VOC analyses.

Blanks

All blank concentrations were less than the MQL.

Internal Standard and Surrogate Recoveries

Surrogate recoveries were within the project measurement quality objectives. According to the LRC, internal standard areas were within SW-846 method acceptance criteria.

Laboratory Control Samples

All LCS recoveries were within stated project objectives.

Matrix Spike/Matrix Spike Duplicates

For batch 25082089, potassium was recovered outside the project objectives for the MS/MSD. The samples affected were flagged to be biased high.

For batch 25082090, phosphorus was recovered outside the project objectives for the MS/MSD. The samples affected were flagged to be biased low.

MS/MSD precision and accuracy results were within the project-defined QC acceptance criteria for all COCs.

Post Digestion Spike

All post digestion spikes were within QC acceptance criteria.

Field Precision

No field duplicates were collected during this sampling event; therefore, field precision was not calculated. Table 3 was intentionally omitted.

Field Procedures

Field procedures were conducted using standard UES protocol.

Summary

The data are usable for the purpose of characterizing the soil and water at the affected property. These data can be used for determining the presence of these compounds as an indication that the concentrations of these compounds exceed their respective PCLs.

Table 1. Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification
Comp 1 (0'-6')	25081549.01
Comp 2 (12'-18')	25081549.02
Comp 3 (18'-24')	25081549.03
Effluent S-1	25081549.04

Table 2. Qualified Analytical Data

Sample ID	Analyte	Qualification	Justification
Effluent S-1	Chlorine, Nitrate as N, pH, Temperature (oC), D.O.	JL	Hold Times
Comp 1, -2, -3	Potassium	JH	MS:Biased High
Comp 1, -2, -3	Phosphorus	JL	MS:Biased Low

Table 3. Field Precision

This table was intentionally omitted.

Attachment 1

NELAP Certificate

Texas Commission on
Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

A & B Environmental Services, Inc.

10100 East Freeway, Suite 100,
Houston, TX 77029-1919

State Lab ID: T104704213
Effective Date: 04/01/2025
Expiration Date: 03/31/2026
Certificate ID: TX-C25-00092

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

K Keel

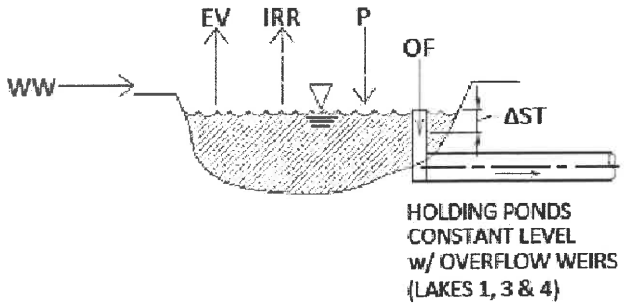
Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/01/2025

ATTACHMENT "R"
SURFACE DISPOSAL BY IRRIGATION
ENGINEERING REPORT

Worksheet 3.1 – Surface Land Disposal of Effluent
Surface Disposal by Irrigation
Engineering Report

I. Water Balance

WW = Wastewater Effluent
EV = Evaporation
IRR = Irrigation
P = Precipitation
OF = Over Flow to Ditch(s)
ΔST = Change in Storage



A. Yearly Values

1. Wastewater [WW] Effluent ± 112,300 gpd
112,300 gal/day x 365 days/yr x 1ft^3/7.48 gal x # acre/43,560 sf = 125.80 ac-ft/yr

2. Evaporation [EV] = 60"/yr
Surface area of holding ponds = 8.41 acres
8.41acres x 5ft/yr = 42.05 ac-ft/yr

3. Irrigation [IRR] (Per Golf Course Superintendent)

Summer (May-Sept) @ 250,000 gpd – 300,000 gpd
275,000 gpd x 153 days/yr x 1ft^3 x 7.48 x 1ac/43,560 sf = 129.13 ac-ft/yr

Spring/Fall (March, April & October) @ ± 175,000 gpd
175,000 gpd x 91 days/yr x 1ft^3/7.48 gal x 1ac/43,560 sf = 48.88 ac-ft/yr

Winter (Nov – Feb)
Tees/Greens @ 30,000 – 40,000 gpd (everyday)
Fairways/Rough 275,000 gpd (2 times/week)
- 35,000 gpd x 121 days x 1ft^3/7.48 gal x 1ac/43,560 sf = 13.0 ac-ft/yr
- 275,000 gpd x 16 wk x 2 days/wk/yr x 1ft^3/7.48 gpd x 1ac/43,560 sf= 27.00 ac-ft/yr

Total IRR/yr = 218.02 ac-ft/yr

4. Precipitation [P] ±26"/yr
   Drainage Area ±200 ac.
   Weighted runoff coefficients (c) = Golf Course = 0.30 (70%)
   Residential = 0.40 (30%)
   C_{AVg} = 0.7 (0.3) + 0.3 (0.4) = 0.33

5. Over Flow [OF] to Ditch = Unknown

6. Change in Storage [△ST] = O, the 5 holding ponds are constant level. Lake #s 1, 3&4 have over flow weirs to storm drains to drain ditches.

B. Water Balance Calculations (yearly)
   In – Out = △ST
   WW + P – EV + IRR + OF = △ST
   (125.80 ac-ft/yr + 143.22 ac-ft/yr) – (42.054 ac-ft/yr + 218.02 ac-ft/yr + OF) = 0
   269.02 ac-ft/yr = 260.07 ac-ft/yr + OF
   OF = 8.95 ac-ft/yr

II. Storage volume (See Worksheet 3.0: Land Disposal of Effluent, Section 3, Table 3.0.

III. Method of Application/Irrigation Efficiency

The WW Effluent is discharged into holding pond #3, removed via vertical turbine pumps and disposed via a sprinkler system to a 139.5 acre Golf Course. The Effluent is blended in 5 holding ponds with both stormwater and raw water (provided by Harlingen Irrigation District). The efficiency of the Golf Course Irrigation pumps range from 55 to 65%, based on flow rate(s).

IV. Nitrogen Balance

A. Design Total Nitrogen Loading Rate (lbs/ac/yr)
   0.655 mg/l x 8.34 x 0.28 mgd = 1.27 lbs N/ac/yr

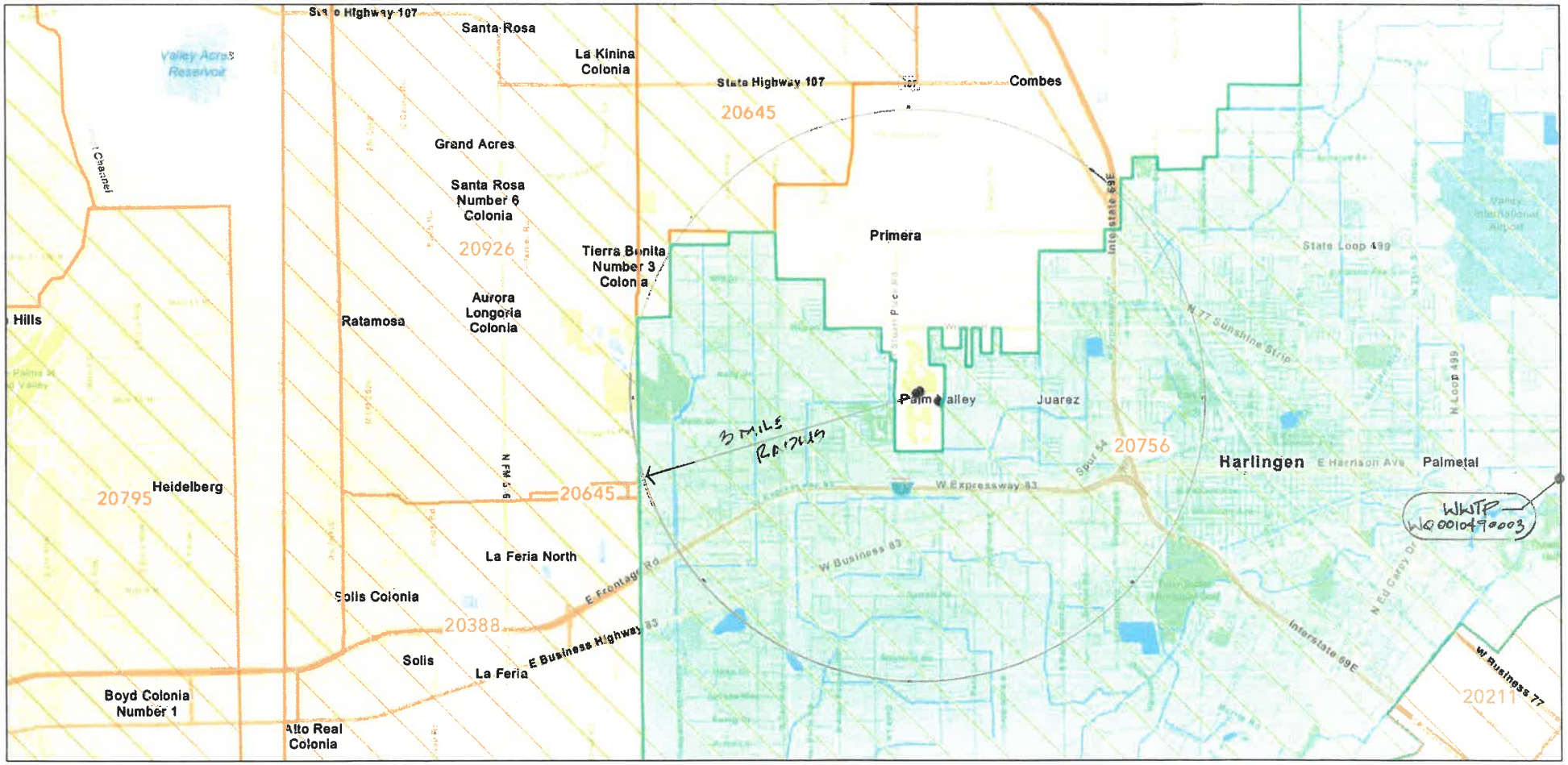
B. Annual liquid loading (ac-ft)
   L = N/2.7c Where N = Annual Crop Requirement of Nitrogen + 20%
   C = Effluent Nitrogen Concentration
   N = 0.5 lbs/1000 sf/month x 43,560 sf/ac x 12 months/yr x 1.20 = 313.63 lbs/ac/yr
   $L = \frac{313.63 \text{ lbs/ac/yr}}{2.7 (0.655 \text{ mg/l})} = 177.34$ ac-ft

C. For established/mature lawns of common Bermuda grass; the application rate is approximately 0.5 lbs N/1000 sf/month. Therefore, the required Nitrogen loading rate (lbs/ac/yr) is:
0.5lbs/1000 sf/month x 43,560 sf/ac x 12 months/yr = 261.36 lbs N/ac/yr

The required Nitrogen loading rate is 205.8 (261.36/1.27) times greater than the Design Total Nitrogen Loading Rate. Per the Golf Course Super Intendent, additional fertilizer (1 lb. phosphate, 2 lbs nitrogen & 4 lbs potassium) is sprayed weekly on the Golf Course.

ATTACHMENT "S"
NEARBY COLLECTION SYSTEM & LETTER REQUEST/RESPONSE

ArcGIS Web Map



8/25/2025, 2:45:11 PM

Sewer CCN Service Areas

1:72,224

0 0.75 1.5 3 mi

0 1 2 4 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



Harlingen Waterworks System
Collection System

FERRIS, FLINN & MEDINA, LLC
ENGINEERS SURVEYORS

August 25, 2025

0246-032

Mr. David Sanchez
Assistant General Manager
Harlingen Water Works System
121 East Harrison Ave.
Harlingen, TX 78550

Re: City of Palm Valley Domestic Wastewater Permit Application

Dear Mr. Sanchez,

As part of the TCEQ – Domestic Wastewater Permit Application, the City of Palm Valley must request service from each permitted Wastewater Treatment facility or Collection System within a 3 mile radius. This letter is the City of Palm Valley's request for service. Please respond in writing at your earliest convenience.

Respectfully,
Ferris, Flinn & Medina, LLC

David H. Flinn, PE
Vice President

1405 North Stuart Place Road • Palm Valley, Texas 78552 • (956) 364-2236 • Fax (956) 364-1023
TBPE Firm Reg. No. F-897 • TBPLS Firm Reg. No. 100-370-00

HARLINGEN WATERWORKS SYSTEM
134 E Van Buren • PO Box 1950 • Harlingen, TX 78551 • (956) 430-6100 • www.hwws.com

August 28, 2025

Mr. David H. Flinn, PE
Vice President
Ferris, Flinn & Median, LLC
1405 Stuart Place Rd
Harlingen Texas 78552

Re: City of Palm Valley Domestic Wastewater Permit Application

Dear Mr. Flinn,

The Harlingen Waterworks engaged a consultant to study and develop a water and wastewater master plan for our system. The study revealed areas of the wastewater treatment facility and the collection system that required improvements to meet current and future needs.

Currently the Harlingen Waterworks is unable to take on the City of Palm Valley as a wastewater customer as we are diligently working towards improving our conveyance capabilities and head works capacity.

For this reason, the Harlingen Waterworks respectfully declines the City of Palm Valley's request for wastewater service. A future request could possibly be considered once the improvements have been completed.

Respectfully,

David R. Sanchez
Assistant General Manager
956-430-6154

ATTACHMENT "T"
SLUDGE MANAGEMENT PLAN

City of Palm Valley – Sludge Management Plan

Influent Design Flow = 0.280 mgd

Influent BOD Concentration = 200 mg/L

Aerobic Digester Volume: 35,664.38 gallons

Aeration Basin MLSS: 2,000 to 3,000 mg/L

Table SMP1 – Sludge Production

Solids Generated	100% flow	75% flow	50% flow	25% flow
Pounds Influent BOD_5	467	350	234	117
Pounds of digested dry sludge produced*	163	123	82	41
Pounds of wet sludge produced	8,210	6,157	4,105	2,052
Gallons of wet sludge produced	984	738	492	246

***Assuming 0.35 pounds of digested dry sludge produced per pound of influent BOD_5 at average temperatures and 2.0% solids concentration in the digester.**

Sludge will be wasted from the RAS flow stream to the aerobic digester. Sludge solids will be stabilized in the digester; supernatant will be decanted from the digester and returned to the aeration basin for treatment.

Table SMP2 – Sludge Removal Schedule

Removal Schedule (months)	100% flow	75% flow	50% flow	25% flow
Days between Sludge Removal	2	3	4	6

Liquid digested sludge will be removed from the digester for disposal on a regular basis as required. The calculated mean cell residence time (MCRT) for the digester storage volume of 35,664.38 gal will be approximately 59 days at 100% capacity and annual average digested sludge production of 163 ppd. The digested sludge will be transported by registered hauler, Denali Water Solutions, Registration #24795 to Reavis Farms, Permit No. 4861 in Hidalgo County.

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MARIAN L DATO
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HARLINGEN TX 78552-6234

ALBERTO PHILLIPS MENDIOLA &
CARLOS PHILLIPS MENDIOLA
21 LOS AMIGOS DR RT 5
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MARY E WETEGROVE
22 LOS AMIGOS
HARLINGEN TX 78552

JONNY NURDIN
23 LOS AMIGOS
HARLINGEN TX 78552-9024

HALEY KATHLEEN HODGE
24 LOS AMIGOS
HARLINGEN TX 78552-9024

RICHARD JR. & GILDA CANALES
MESQUIAS
25 LOS AMIGOS
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120 T BAR M DR
NEW BRAUNFELS TX 78132-3734

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HARLINGEN TX 78552-9024

CLOICE A WHITLEY
31 LOS AMIGOS
HARLINGEN TX 78552-9024

EUGENIE R RISDAL
32 LOS AMIGOS
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GARY G II WRIGHT
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5500 EL CAMINO REAL
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LYNNE MARIE J LERBERG
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ROGER ALAN GARZA
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CHRISTINE S DEBOLT
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141 EL CIELO CIR
HARLINGEN TX 78552

TAYLOR MARIE SALDANA &
LOGAN JAMES MEDLEY
146 EL CIELO CIR
HARLINGEN TX 78552-8914

ROSA MARIA MILLER &
EST OF DAVID A. MILLER
138 EL CIELO CIR
HARLINGEN TX 78552-8914

LORA A BOYD
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ANA HAFIZ
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5124 GRANDE CIR
HARLINGEN TX 78552-8915

THOMAS GEORGE II MASON &
KEITH BRADLEY COX
5117 RICO CIR
HARLINGEN TX 78552-8916

JUAN A & PRISCILLA F MALDONADO
5125 RICO CIR
HARLINGEN TX 78552-8916

THE ROBERT MIFFLIN & MARY
FRANCES DALZELL REV LIV TRST
AGMT
5116 RICO CIR
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MARIA L MONDRAGON
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MATT F GORGES
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5133 MANANA CIR
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SAMUEL POSADA &
ROSA MARTA MARTINEZ
5132 MANANA CIR
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MANUEL FLORES TR OF THE
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5409 GUAVA LLC
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RONALD D & REBA N TYLER
728 CARO CIR
HARLINGEN TX 78552-8942

RONALD D & REBA N TYLER
728 CARO CIR
HARLINGEN TX 78552-8942

ANDREW P DAHLIN
718 CARO CIR
HARLINGEN TX 78552-8942

JOHN DARCY
708 CARO CIR
HARLINGEN TX 78552-8942

NORRIS JIM WHITTAKE JR &
TERESA G JACKSON
700 CARO CIR
HARLINGEN TX 78552-8942

ELVAN D & CAROLYN WALLACE
701 CARO CIR
HARLINGEN TX 78552-8942

GLEN & CANDACE K DIVIN
709 CARO CIR
HARLINGEN TX 78552-8942

JOHN GEOFFROY &
ELZBIETA ANNA NEWMAN
717 CARO CIR
HARLINGEN TX 78552-8942

KAREN LYNN JONES
7125 CARO CIR
HARLINGEN TX 78552

AURORA & JOSE A BARRERA
733 CARO CIR
HARLINGEN TX 78552-8942

ALVEAR EVA
741 CARO CIR
HARLINGEN TX 78552-84

KOSUKE BABA & CHIA CHEN KANG
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GUILLERMO REY DE LA GARZA
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BOBBY D & PAULA S ERMEY
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HARLINGEN TX 78552

BRIAN DAVID CHILDS &
ADELE BERNICE WILCOX
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AMALIA DE LEON REYES
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HARLINGEN TX 78552-8956

WILLIAM E JR & LISA ANN WERLEY
5340 PAPAYA CIR
HARLINGEN TX 78552-8956

IHSAN & CLEMENTINA SALLOUM
5348 PAPAYA CIR
HARLINGEN TX 78552-8956

ALEJANDRO HINOJOSA
EST OF & ET UX
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HARLINGEN TX 78551-1802

DAVID J & EILEEN ANN HEFFERNAN
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DONALD R & DARLING BARBARA A
SCHLESSINGER
5347 PAPAYA CIR
HARLINGEN TX 78552-8956

DAVID NEWELL ET UX
5339 PAPAYA CIR
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KAY AKA KATHERINE RISHER
CONLY
5331 PAPAYA CIR
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LESTER & MAGPULONG JESSA MAY
5323 PAPAYA CIR
HARLINGEN TX 78552-8956

GRESHAM LESTER WHITFIELD
5315 PAPAYA CIR
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MATTHEW K DOWNEY & MARIA R
MORIN
5307 PAPAYA CIR
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MANUEL JR & LINDA JOY PEREZ
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1 CHARLES MARK & LEGORRETA
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ROUND ROCK TX 78665-2288

3 JUAN M BLANDO
74 OCEAN PARK TORRE 2 APT 2213
PANAMA CITY FL 32407

4 UILLERMO REY DELAGARZA
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5 BRUCE LARSEN &
AIDE SARAI IBARRA
16 LOS AMIGOS UNIT 15
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6 PEDRO J PENA
11025 W HARRISON AVE
HARLINGEN TX 78552

7 FREINDSWOOD HOLDINGS CORP
30 LOS AMIGOS
HARLINGEN TX 78552-9024

8 JOSE & WENDY COBOS
158 S NUECES PARK LN
HARLINGEN TX 78552-6234

9 MARIAN L DATO
119 N NUECES PARK LN
HARLINGEN TX 78552-6234

10 ALBERTO PHILLIPS MENDIOLA &
CARLOS PHILLIPS MENDIOLA
21 LOS AMIGOS DR RT 5
HARLINGEN TX 78552

11 MARY E WETEGROVE
22 LOS AMIGOS
HARLINGEN TX 78552

12 JONNY NURDIN
23 LOS AMIGOS
HARLINGEN TX 78552-9024

13 HALEY KATHLEEN HODGE
24 LOS AMIGOS
HARLINGEN TX 78552-9024

14 RICHARD JR. & GILDA CANALES
MESQUIAS
25 LOS AMIGOS
HARLINGEN TX 78552-9024

15 ISRAEL E TREVINO
120 T BAR M DR
NEW BRAUNFELS TX 78132-3734

16 KEETER MOBILE
MANAGEMENT LP
1305 N STUART PLACE RD
HARLINGEN TX 78552-6230

17 HOLZMAN HOLDINGS LLC
113 CREEKBEND DR
BROWNSVILLE TX 78521-4325

18 LETICIA T TAVERA
29 LOS AMIGOS
HARLINGEN TX 78552-9024

19 CHRIS B MITEFF &
SUSANNE RANDEL
30 LOS AMIGOS
HARLINGEN TX 78552-9024

20 CLOICE A WHITLEY
31 LOS AMIGOS
HARLINGEN TX 78552-9024

21 EUGENIE R RISDAL
32 LOS AMIGOS
HARLINGEN TX 78552

22 MICHAEL GORGES &
GARY G II WRIGHT
1275 N STUART PLACE RD
HARLINGEN TX 78552-4290

23 HARLINGEN COUNTRY CLUB INC
5500 EL CAMINO REAL
HARLINGEN TX 78552-8901

24 MILDRED M MCNABB
5610 ARNOLD PALMER DR
HARLINGEN TX 78552-8904

25 LYNNE MARIE J LERBERG
5611 ARNOLD PALMER
HARLINGEN TX 78552

26 BRENDA SUE GLOOR
5608 BYRON NELSON DR.
HARLINGEN TX 78552-8905

27 JOHN P & JEAN HEINER
6414 EL CAMINO REAL
HARLINGEN TX 78552-8997

28 NEIL & LYNDA HAMAN
900 PALM VALLEY DR W
HARLINGEN TX 78552-9013

29 MORGAN LAMANTIA
802 PALM VALLEY DR W
PALM VALLEY TX 78552-9032

30 THOMAS & ALMA DONNELLY
5502 BOUGAINVILLEA DR
HARLINGEN TX 78552-8963

31 RICKY JAMES LUTHEN
708 PALM VALLEY DR W
HARLINGEN TX 78552-8995

32 MICHAEL CHARLES HICKS
700 PALM VALLEY DR W
HARLINGEN TX 78552-8995

33 GARY L MASON
618 PALM VALLEY DR W
HARLINGEN TX 78552-8995

34 LARSEN THE ANNE VAUGHN REV. TR DTD
610 PALM VALLEY DR W
HARLINGEN TX 78552-8995

35 MARIA DOLORES DE LEON
602 W. PALM VALLEY DR
HARLINGEN TX 78552

36 LISA L TAYLOR
5425 PALM VALLEY DR N
HARLINGEN TX 78552-9052

37 JOHN T & BETTY JEAN MCGARRY
516 PALM VALLEY DR W
HARLINGEN TX 78552-8994

38 MARC P & LORI L SALDANA
508 PALM VALLEY DR W
HARLINGEN TX 78552-8994

39 LANA & RAY FOWLER CO TRS OF THE LANA FOWLER TRST DTD
500 PALM VALLEY DR W
HARLINGEN TX 78552-8994

40 ERIKA YVETTE HINOJOSA & ROGER ALAN GARZA
416 PALM VALLEY DR W
HARLINGEN TX 78552-8993

41 ANDREW R & BETH ANN CARTER
408 PALM VALLEY DR WEST
HARLINGEN TX 78552

42 WILLIAM A & ANNA BOHART
400 PALM VALLEY DR W
HARLINGEN, TX 78552-8993

43 PAUL WHITTON & CHRISTINE S DEBOLT
318 PALM VALLEY DR W
HARLINGEN TX 78552-8992

44 JEROME & JESSIE WADE
310 PALM VALLEY DR W
HARLINGEN TX 78552-8992

45 KOSUKE BABA
5401 BOUGAINVILLEA DR
HARLINGEN TX 78552-8922

46 PATRICK LEIMON
300 PALM VALLEY DR E
HARLINGEN TX 78552-8925

47 NATHAN JOHN & MADELINE L BREWER
2005 E HICKORY ST
GREENWOOD AR 72936-5914

48 ELIZABETH R LUNDQUIST
210 PALM VALLEY DR W
HARLINGEN TX 78552-8948

49 NATHAN JULIA IRENE & LOVELESS JOEL MATHEW
PO BOX 2444
HARLINGEN TX 78551-2444

50 ANTONIO III & SUMMER LOZANO
146 PALM VALLEY DR W
HARLINGEN TX 78552-8948

51 JAIME JR & NORA DELY GALVAN
138 PALM VALLEY DRIVE W
HARLINGEN TX 78552

52 ERNESTO & ALMA GALVAN
141 EL CIELO CIR
HARLINGEN TX 78552

53 TAYLOR MARIE SALDANA & LOGAN JAMES MEDLEY
146 EL CIELO CIR
HARLINGEN TX 78552-8914

54 ROSA MARIA MILLER & EST OF DAVID A. MILLER
138 EL CIELO CIR
HARLINGEN TX 78552-8914

55 LORA A BOYD
130 EL CIELO CIR
HARLINGEN TX 78552-8914

56 ANA HAFIZ
122 EL CIELO CIR
HARLINGEN TX 78552-8914

57 DONALD A & JUDITH A FRANKLIN
1205 MONTPIER DR
FRANKLIN TN 37069-4707

58 COLLIN & COURTNEY SMITH
5416 PALM VALLEY DR S
HARLINGEN TX 78552-9063

59 EDWARD LEE & SUSAN BEATRICE KOELPER TRS THE KEOLPER FAM
5408 PALM VALLEY DR S
HARLINGEN TX 78552-9063

60 CARRIE LYNN & RAY REYES
5400 PALM VALLEY DR S
HARLINGEN TX 78552-9063

61 JANET H & ROBERT J
HARRINGTON
5324 PALM VALLEY DR S
HARLINGEN TX 78552-9062

62 ERIC & DAWN ZIEHE
5316 PALM VALLEY DR S
HARLINGEN TX 78552-9062

63 CLINTON H VOS
BOX 2103 GARDINER PARK
REGINA SK S4V 1J4

64 MARK WILLIAM JONES &
SUZANNE MORIN
5226 PALM VALLEY DR S
HARLINGEN TX 78552-9062

65 JOSEPH MICHAEL & SALLIE
VILLARREAL
5218 PALM VALLEY DR S
HARLINGEN TX 78552-9062

66 VICENTE ORNELAS
5210 PALM VALLEY DR S
HARLINGEN TX 78552-9062

67 MICHAEL DAVID &
PAOLA SAENZ SHAVER
5126 PALM VALLEY DR S
HARLINGEN, TX 78552-9061

68 JAMES L & JUDITH E WERTH
5118 PALM VALLEY DR S
HARLINGEN TX 78552-9061

69 JAMES BRADLEY TRS OF THE
BRADLEY FAM TR
51025 GRANDE CIR
HARLINGEN TX 78552

70 RONALD JR. & CARLA TYLER
5124 GRANDE CIR
HARLINGEN TX 78552-8915

71 THOMAS GEORGE II MASON &
KEITH BRADLEY COX
5117 RICO CIR
HARLINGEN TX 78552-8916

72 JUAN A & PRISCILLA F
MALDONADO
5125 RICO CIR
HARLINGEN TX 78552-8916

73 THE ROBERT MIFFLIN & MARY
FRANCES DALZELL REV LIV TRST
AGMT
5116 RICO CIR
HARLINGEN TX 78552-8916

74 MARIA L MONDRAGON
5125 PAPAYA CIR
HARLINGEN TX 78552-8920

75 MATT F GORGES
5124 PAPAYA CIR
HARLINGEN TX 78552-8920

76 LEONEL JR & VANESSA NICOLE
RAMIREZ
5117 EL JARDIN CIR
HARLINGEN TX 78552-8917

77 PATRICIA HOLLOWAY & EST OF
CHARLES E. HOLLOWAY
5124 EL JARDIN CIR
HARLINGEN TX 78552-8917

78 CHARLES L SHOFNER & MELISSA
K SHOFNER TR OF THE SHOFNER
3313 E HARRISON AVE
HARLINGEN TX 78550-2511

79 STEPHEN JOHN JR ZILKO &
CYNTHIA DE LEON STOLTS
5125 LA VISTA CIR
HARLINGEN TX 78552-8918

80 ROBERTO & KAYLYNN LANAE
SALAZAR
5124 LA VISTA CIR
HARLINGEN TX 78552-8918

81 JEANNO A AQUINO &
REBECCA CHEREEN
5125 MANANA CIR
HARLINGEN TX 78552-8919

82 CHRISTOPHER N CHAMPION
5133 MANANA CIR
HARLINGEN TX 78552-8919

83 SAMUEL POSADA &
ROSA MARTA MARTINEZ
5132 MANANA CIR
HARLINGEN TX 78552-8919

84 MANUEL FLORES TR OF THE
MANUEL FLORES TR
5133 BOUGAINVILLEA DR
HARLINGEN TX 78552-8944

85 JOHN L VANDEBERG
5134 BOUGAINVILLEA DR
HARLINGEN TX 78552-8943

86 GARNETT T & RAYMA B CAUSEY
5126 BOUGAINVILLEA
HARLINGEN TX 78552-8943

87 DENVER HANCE &
COURTNEY TERVEEN
5118 BOUGAINVILLEA DR
HARLINGEN TX 78552-8943

88 ROBERT C & MARY ENGELHARDT
VIETS REVOC. TRUST
809 PALM VALLEY DR. E.
HARLINGEN, TX 78552-8949

89 ERVIN & AUDREY FUREDI
817 PALM VALLEY DR E
HARLINGEN TX 78552-8949

90 RUBEN D &
VERONICA H GARZA
901 PALM VALLEY DR. E.
HARLINGEN, TX 78552-8958

91 LOIS SHREVE
909 PALM VALLEY DR E
HARLINGEN TX 78552-8958

92 BRENT M & SUZANNE MANNING
1001 PALM VALLEY DR EAST
HARLINGEN TX 78552

93 BRYAN H & ANGELA K WOLF
1009 PALM VALLEY DR E
HARLINGEN TX 78552-8964

94 CHARLES HENRY THIRLWALL JR
155 FIRESIDE DR
BROWNSVILLE TX 78521-1646

95 GARY & SANDRA DESKOVICK
17314 SANTA ISABEL ST
FOUNTAIN VALLEY CA 92708-3111

96 HENRY P & MAGDALENA R CHAPA
810 PALM CT DR
HARLINGEN TX 78550

97 BRYAN H WOLF
1125 CHICO CIR
HARLINGEN TX 78552

98 ANTONY & TERESA BAUCOM
1201 PALM VALLEY DR E
HARLINGEN, TX 78552-9053

99 CHRISTINA MARIA SHANNON C
RUDOLPH CHISHOLM
2741 N COTTONWOOD LOOP
WASILLA AK 99654-4231

100 FRED D & MAUREEN PARCE
1217 PALM VALLEY DR E
HARLINGEN TX 78552-9053

101 LONNIE SEWELL &
EARLENE SEWELL
1301 PALM VALLEY DR E
HARLINGEN TX 78552-9054

102 MONA & STEPHEN J EHASZ JR
1309 PALM VALLEY DR E
HARLINGEN TX 78552-9054

103 RICARDO LEDESMA &
GLENDA GARZA
PO BOX 1571
HARLINGEN TX 78551-1571

104 BILLIE DEE DAVIS
1401 PALM VALLEY DR E
HARLINGEN TX 78552-9055

105 LUIS ALBERTO &
SUSANA HERLINDA CHAVEZ
1409 PALM VALLEY DR E
HARLINGEN TX 78552-9055

106 MARIA D MURILLO DE VILLEGAS
1417 PALM VALLEY DR E
HARLINGEN TX 78552-9055

107 TODD R & SYLVIA
MCCUTCHEON
1425 PLAM VALLEY DR E
HARLINGEN TX 78552-9055

108 CASAS INVESTMENTS
HOLDINGS LLC
15671 PRIMERA RD
HARLINGEN TX 78552-0018

109 FRANCISCO CASTELLANOS
1441 PALM VALLEY DR E
HARLINGEN TX 78552-9055

110 CHARLES MARK & LEGORRETA
LAURA ESTELA MATTHEWS TR OF THE
CHARLES MARK MATTHEWS & LAURA
LEGORRETA REV TR
1449 PALM VALLEY DR E
HARLINGEN TX 78552-9055

111 MICHAEL ROBERT SULLIVAN &
URIEGAS MELISSA
1457 PALM VALLEY DR E
HARLINGEN TX 78552-9055

112 TRACIA & DAVID MICHAEL
FORMAN
1465 PALM VALLY DR E
HARLINGEN TX 78552-9055

113 CARMEN BEATRIZ VAZQUEZ
1501 PALM VALLEY DR E
HARLINGEN TX 78552-9028

114 JOE FRANK & RUTH SOSA
GONZALEZ CHERRY
1509 PALM VALLEY DR E
HARLINGEN TX 78552-9028

115 ALISA MATZ
24583 N DILWORTH RD
HARLINGEN TX 78552-2438

116 ANNETTE T BAKER
1525 PALM VALLEY DR E
HARLINGEN TX 78552-9028

117 MICHAEL BOYD CARPENTER
TRUSTEE OF THE MB CARPENTER
REV TR
1601 PALM VALLEY DR E
HARLINGEN TX 78552-9028

118 BURKHOLDER 1995
MANAGEMENT TR JACK C & ELSA N
RAMIREZ DE BURKHOLDER TRS
1617 PALM VALLEY DR E
HARLINGEN TX 78552

119 GARY G & DEBORAH ELLIS
1625 PALM VALLEY DR E
HARLINGEN TX 78552-9007

120 MARYLOU & TREVINO AMELIA
GONZALEZ
PO BOX 1422
KINGSVILLE TX 78364-1422

121 CHERYL CROSS & THOMAS EUGENE CROSS
5217 GUAVA DR
HARLINGEN TX 78552-8984

122 YVESS JEAN MARIE & NICOLE GARRIC
5301 GUAVA
HARLINGEN, TX 78552

123 DANIEL & SORAIDA ORTIZ
5309 GUAVA DR
HARLINGEN TX 78552-8959

124 TRPTDP LP
1033 APACHE DR
DE LEON TX 76444-2622

125 MCF HOMES LLC
4355 TAOS RD
DALLAS TX 75209-2825

126 5409 GUAVA LLC
3225 MCLEOD DR
LAS VEGAS NV 89121-2257

127 LISA L & EASLEY DENNIS EARL TAYLOR
5425 PALM VALLEY DR N
PALM VALLEY TX 78552-9052

128 RUSSEL F & SOPHIA BAKER
5509 PALM VALLEY DR N
HARLINGEN TX 78552-9011

129 MANUELA R SANCHEZ
5517 PALM VALLEY DR N
HARLINGEN TX 78552-9011

130 GLENN & JULIE WILDE
11828 FM 492
LYFORD TX 78569

131 HOWARD JOHN TOZZO JR.
MARTHA L CALLAWAY
1824 PALM VALLEY DR W
HARLINGEN TX 78552-9033

132 DONNA J ARNOLD & JAMES P CO TRS OF THE DONNA J ARNOLD LIV TR
1816 PALM VALLEY DR W
HARLINGEN TX 78552-9033

133 ROBERT ALFRED PEINERT
1808 PALM VALLEY DR W
HARLINGEN TX 78552-9033

134 ELIZABETH C RAMEE
1748 BRAZO CIR
HARLINGEN TX 78552-8937

135 DARLENE L &
VERNON E PETERSEN
1740 BRAZO CIR
HARLINGEN TX 78552-8937

136 CHARLES SCOTT & LEISA G BENNETT
135 N NUECES PARK LN
HARLINGEN TX 78552-6232

137 KOKAL ELSIE
1724 BRAZO CIR
HARLINGEN TX 78552-8937

138 KELLEY SALLY A LIVING TRUST
1716 BRAZO CIR.
HARLINGEN, TX 78552-8937

139 SCHWING CYNTHIA SWANBERG
7918 CORINTH DR
CORPUS CHRISTI TX 78413-6031

140 THOMAS H NESMITH JR
ALICE A NESMITH
1700 BRAZO CIR
HARLINGEN TX 78552

141 WILLIAM E WERLEY SR TRUSTEE FOR THE WILLIAM E WERLEY SR AMENDED RESTATED REV LIVING TRUST
1600 BRAZO CIR
HARLINGEN TX 78552-8967

142 KIMBERLEY ANN BEESON & MICHAEL JOSEPH FULCA
513 TERRA LINDA LN
ASHLAND MO 65010-9881

143 BURD LORETTA L
5301 BOUGAINVILLEA DR
HARLINGEN TX 78552-8970

144 POSADA EDNA G
1104 YUCCA AVE
MCALLEN TX 78504-3525

145 BESSIE W ENGLER
742 CARO CIR
HARLINGEN TX 78552-8942

146 RONALD D & REBA N TYLER
728 CARO CIR
HARLINGEN TX 78552-8942

147 RONALD D & REBA N TYLER
728 CARO CIR
HARLINGEN TX 78552-8942

148 ANDREW P DAHLIN
718 CARO CIR
HARLINGEN TX 78552-8942

149 JOHN DARCY
708 CARO CIR
HARLINGEN TX 78552-8942

150 NORRIS JIM WHITTAKE JR & TERESA G JACKSON
700 CARO CIR
HARLINGEN TX 78552-8942

151 ELVAN D & CAROLYN WALLACE
701 CARO CIR
HARLINGEN TX 78552-8942

152 GLEN & CANDACE K DIVIN
709 CARO CIR
HARLINGEN TX 78552-8942

153 JOHN GEOFFROY &
ELZBIETA ANNA NEWMAN
717 CARO CIR
HARLINGEN TX 78552-8942

154 KAREN LYNN JONES
7125 CARO CIR
HARLINGEN TX 78552

155 AURORA & JOSE A BARRERA
733 CARO CIR
HARLINGEN TX 78552-8942

156 ALVEAR EVA
741 CARO CIR
HARLINGEN TX 78552-84

157 KOSUKE BABA & CHIA CHEN
KANG
5401 BOUGAINVILLEA DR
HARLINGEN TX 78552-8922

158 RICHARDS ANNIE LAURIE
5300 PAPAYA CIR
HARLINGEN TX 78552-8956

159 GUILLERMO REY DE LA GARZA
5308 PAPAYA CIR
HARLINGEN TX 78552-8956

160 BOBBY D & PAULA S ERMEY
5316 PAPAYA CIR
HARLINGEN TX 78552

161 BRIAN DAVID CHILDS &
ADELE BERNICE WILCOX
5324 PAPAYA CIR
HARLINGEN TX 78552-8956

162 AMALIA DE LEON REYES
5332 PAPAYA CIR
HARLINGEN TX 78552-8956

163 WILLIAM E JR & LISA ANN
WERLEY
5340 PAPAYA CIR
HARLINGEN TX 78552-8956

164 IHSAN & CLEMENTINA SALLOUM
5348 PAPAYA CIR
HARLINGEN TX 78552-8956

165 ALEJANDRO HINOJOSA EST OF
& ET UX
PO BOX 1802
HARLINGEN TX 78551-1802

166 DAVID J & EILEEN ANN
HEFFERNAN
5355 PAPAYA CIR
HARLINGEN TX 78552-8956

167 DONALD R & DARLING BARBARA
A SCHLESSINGER
5347 PAPAYA CIR
HARLINGEN TX 78552-8956

168 DAVID NEWELL ET UX
5339 PAPAYA CIR
HARLINGEN TX 78552-8956

169 KAY AKA KATHERINE RISHER
CONLY
5331 PAPAYA CIR
HARLINGEN TX 78552-8956

170 LESTER & MAGPULONG JESSA
MAY
5323 PAPAYA CIR
HARLINGEN TX 78552-8956

171 GRESHAM LESTER WHITFIELD
5315 PAPAYA CIR
HARLINGEN TX 78552-8956

172 MATTHEW K DOWNEY & MARIA
R MORIN
5307 PAPAYA CIR
HARLINGEN TX 7855-8956

173 MANUEL JR & LINDA JOY PEREZ
5301 PAPAYA CIR
HARLINGEN TX 78552-8956

600' 0 600'

Scale: 1" = 600'

LEGEND

WIND ROSE

WILSON RD

STUART PLACE RD

PRESTON TRL

PALM VALLEY DR W

DILLWORTH RD

GOLF COURSE

EFFLUENT DISPOSAL BOUNDARY

AVALON DR

LOS MARCIANOS

N NUECES PARK LN

PALM VALLEY, TEXAS CITY LIMITS

S NUECES PARK LN

Palm Valley

W.W.T.P.

BOUGAINVILLEA DR

PALM VALLEY DR S

QUEEN SAGO DR

PALM VALLEY CIR

ACACIA

VAREZ LN

FERRIS,FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

USGS TOPOGRAPHICAL MAP @ 600' SCALE

FILE: 246-032	DRAWN BY: A.C.	SHEET 3 OF 3
DATE: 08/29/2025	SCALE: 1" = 600'	

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 9/17/2025 10:23:07 AM, DWG To PDF.pc3

3,000' 0 3,000'

Scale: 1" = 3,000'

1 MILE RADIUS

PALM VALLEY, TEXAS CITY LIMITS

STUART PLACE RD

WILCOX RD

N EXPRESSWAY 77

W EXPRESSWAY 83

Primera

Avondale

Palm Valley

Stuart Place

HARLINGEN

Adams Gardens

Shofner Farms Airport

Reba Bass Lake

City of Harlingen Reservoir

RIO RANCHO RD

CANAL RD

PRIMERA RD

5TH ST

MILLS RD

BACON WAY RD

WILSON RD

SPANGLER LN

KELLY DR

RODEO DR

SPARROW

PALIS DR

JOHNSTON LN

HICK HILL RD

HAWK DR

ALEXIS AVE

KINGBIRD DR

TRAXLER WAY

DENNIS LN

MABRY ST

HUGHES RD

GLENNWAY DR

LA CANTERA DR

REGINA DR

EXECUTIVE

HERMIE LN

MCLELLAND RD

HOSS LN

LEVENS WAY

EWING DR

PRICE LN

TRIMPE LN

ARROYO DR

ADAMS RD

AVALON DR

N NUECES PARK LN

S NUECES PARK LN

BOUGAINVILLEA DR

W PALM VALLEY CIR

PALM VISTA DR

QUEEN SAGO DR

GANN

DATE DR

ACACIA

GRAHAM RD

HWY 83 FRONTAGE RD

BRENNAMAN RD

DRURY RD

GARRETT RD

ROOSEVELT RD

WOODROW

LAMON RD

KILBOURN RD

IOWA DR

KAYLA LN

NITA ST

ELMORE LN

BETTY BOB DR

STARBUCK RD

AL CONWAY

W LINCOLN ST

BOTHWELL RD

W LOZANO ST

WOOD AVE

HODES AVE

KROGER AVE

W LAFAYETTE ST

EMERALD DR

TEEGE RD

OSBORN AVE

TIMES SQ

W HARRISON AVE

JESSICA LN

MAYFIELD RD

RIO RED DR

TAYLOR RD

NOVEMBER DR

SCENIC LN

ODOM LN

ARROYO BANK DR

AURORA DR

ABD RD

MESQUITE RD

SIMMONS RD

RANGERVILLE RD

HORSESHOE RD

TURNER RD

DILWORTH RD

BASS BLVD

S MCLELLAND RD

S TAMM LN

BAKER POTTS RD

COOK LN

S PALM COURT DR

PALM BLVD

PALOMA LN

DIXIELAND RD

MIDLANE DR

HAVERFORD BLVD

ARAGON DR

TOPAZ DR

BECKHAM RD

HALPIN RD

CROCKETT RD

E PINE RD

FM-3195

S PALM BLVD

1 WAY

EXIT ONLY

GREENBRIER

MELODY LN

2ND ST

9TH ST

W LINCOLN ST

HAND RD

CROSSETT RD

MINNESOTA ST

NEBRASKA ST

FRONTAGE RD

TEXAS

BETTY AVE

EVA AVE

MARY AVE

9TH ST

1ST ST

YOUNG RD

CRAGON RD

STUART PLACE RD

BURNS RD

HOLLOWELL WAY

TAMM LN

N ALTAS PALMAS RD

ALTAS PALMAS RD

FERRIS LN

RICHMOND DR

ALANZO RD

CARVER RD

EL CAMPO RD

EL PASO RD

WILCOX RD

RAMSEY RD

PLETCHER AVE

JUANITA

NORMA RD

JASPER LN

TOPAZ

AGATE

BRAZIL RD

TERRY LN

CHESSER PARK RD

PARK LN E

ALVAREZ LN

SANDERO W

ORANGE DR

MAPLE DR

N WHITE RANCH RD

S WHITE RANCH RD

WILSON CANAL

Arroyo Colorado

Harlingen Main Canal

CR-463

N V ST

N U ST

N T ST

N S ST

N R ST

N Q ST

N P ST

S P ST

N O ST

W VINSON A

W LINCOLN AV

INDUSTRIAL BLVD

LANE K

LANE G

LANE D

LANE B

JADE RD

Bus 77

Bus 83

374

448

$^{S}20$ $^{S}21$ 47'30"

FERRIS, FLINN & MEDINA LLC

ENGINEERS SURVEYORS

1405 N. STUART PLACE ROAD

HARLINGEN, TEXAS 78552

PHONE (956) 364-2236 FAX (956) 364-1023

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

FIRM REGISTRATION NO. 100370-00 FIRM REGISTRATION NO.: F-897

CITY OF PALM VALLEY

USGS TOPOGRAPHICAL MAP @ 3,000' SCALE

FILE: 246-032	DRAWN BY: A.C.	SHEET 2 OF 3
DATE: 09/16/2025	SCALE: 1" = 3,000'	

F:\0246 City of Palm Valley\246-032 WW Permit Renewal Proposal\dwg\246-032.dwg, 9/17/2025 10:22:48 AM, DWG To PDF.pc3

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

The National Map US Topo

HARLINGEN QUADRANGLE
TEXAS-CAMERON CO.
7.5-MINUTE SERIES

97°45' 625 000mE 26 27 42'30" 28 30 31 32 40' 34 35 36 1 270 000 FEET 97°37'30"
26°15' 29 04 26°15'

Combes
FM-508
HOLLIDA
STATON
WOODROW
Bus 77
ORANGE ST
N 77 SUNSHINE STRIP
CRAGON RD
RIO RANCHO RD
LAMON RD
KILBOURN RD
RIO RANCHO
IOWA DR
KAYLA LN
NITA ST
YOUNG RD
ELMORE LN
FRONTAGE RD
MINNESOTA ST
NEBRASKA ST
POPLAR ST
CANAL RD
TEXAS
BETTY AVE
EVA AVE
MARY AVE
BETTY BOB DR
1ST ST
9TH ST
SABAL DR
STARBUCK RD
CROSSETT RD
NEW COMBES HWY
NUMBER SEVEN CANAL
ROAD 926
BRIGGS COLEMAN RD
AMISTAD RD
726 RD
FLORES DR
FM-507
RIO GRANDE VALLEY AIRPORT
EBONY RD
SCHMOKER RD
HAND RD
PRIMERA RD
AL CONWAY
BREEDLOVE ST
MONTEZUMA RD
ALOE DR
YUCCA DR
SUNWAY DR
NUMBER TWO CANAL
N 25TH ST
ACACIA
CHERRY
DOGWOOD
YUCCA
ELM
FRESNO
HIBISCUS
Valley International Airport
WOODALL AVE
BODENHAMER RD
BOB YOUKER ST
FM-1595
Avondale
N ED CAREY DR
BRIAR AVE
N 24TH ST
N WILLOW
N 23RD ST
WILCOX RD
EL CAMPO RD
EL PASO RD
ROOSEVELT RD
INDUSTRIAL BLVD
W VINSON AVE
N SHIRLEY ST
N ROSE ST
N BREEDLOVE ST
ENCINO ST
N BLAKE ST
CHRISTIAN CIR
KARIS CT
N 13TH ST
N 21ST ST
E VINSON AVE
JASMINE
RAINTREE
HERITAGE WAY
CAREY RD
FERREE ST
S MARK CIR
SPRING CT
W MATZ AVE
E MATZ AVE
E LORI LN
HURST AVE
RIO HONDO RD
1 MILE RADIUS
WILSON RD
N B ST
E DAVIS ST
E WILLIAMSON AVE
PLANTATION DR
WARREN ST
MORGAN BLVD
ACADEMY DR
MARKOWSKY AVE
E BECK ST
ORANGE HEIGHTS DR
PITTMAN ST
MENDEZ ST
N 3RD ST
N 7TH ST
N 17TH ST
N 25TH ST
HIGH ST
NORTHRIDGE DR
RAMSEY RD
W LOZANO ST
MARSHALL ST
E CARROL ST
ANNETTE ELLA ST
N O ST
Number One Canal
NEW COMBES HWY
FINDLEY ST
KELLY ST
N D ST
N A ST
E GRIMES ST
GRIMES RD
WOOD AVE
HODES AVE
KROGER AVE
W LAFAYETTE ST
EMERALD DR
LANE K
LANE G
LANE D
LANE B
JADE RD
N COMMERCE ST
W WICHITA AVE
E AUSTIN AVE
E BOWIE ST
N 26TH ST
N 27TH ST
N 29TH ST
SONESTA DR
CARDINAL DR
SUSAN ST
MARTHA ST
PLETCHER AVE
JUANITA
NORMA RD
JASPER LN
TOPAZ
AGATE
TEEGE RD
FAIR PARK BLVD
W LELA ST
N C ST
N 9TH ST
N 11TH ST
N 13TH ST
N 8TH ST
N 5TH ST
Lake Harlingen
Number Three Canal
E WASHINGTON AVE
E ADAMS AVE
LISA ANN AVE
Palmetal
N 21ST ST
BOBWHITE DR
N ED CAREY DR
FM-1595
E HARRISON AVE
E TYLER AVE
E POLK ST
E TAYLOR ST
S W ST
N PARKWOOD DR
S ED CAREY DR
S 54TH ST
S 56TH ST
LITTLE CREEK DR
GREENWAY ST
S PARKWOOD DR
S COMMERCE ST
E TAFT AVE
RIVERSIDE DR
CLIFFORD ST
CYPRESS DR
LOTUS ST
POINCIANA ST
TED CIR
BECKY LN
S 24TH ST
S 23RD ST
HAINE DR
BENWOOD ST
JONES ST
SAM HOUSTON ST
LAZY LAKE DR
PINEHURST DR
CYPRESS GDNS
Arroyo Colorado
LOOP 590
BUSH ST
S M ST
W TAFT AVE
E ARROYO DR
HARLINGEN
N LOOP 509
MCDONALD RD
MAYFIELD RD
Harlingen Municipal Golf Course
E NEW HAMPSHIRE ST
GLASSCOCK AVE
TREASURE HILLS BLVD
RUSSELL LN
VERMONT
N WHALEN RD
WILLIAMS RD
HALE AVE
KING AVE
S IDAHO ST
W IOWA AVE
S DAKOTA ST
S RANGERVILLE RD
MASSACHUSETTS
W LAMB AVE
W NEW HAMPSHIRE ST
HELEN MOORE RD
KLOORE DR
N MAYFIELD RD
SWEEZY LN
LOVETT RD
LATERAL M CANAL
W LOUISIANA ST
LIPSCOMB AVE
OKLAHOMA ST
OREGON ST
ED CAREY DR
CAMELOT DR
S EXPRESSWAY 83
W EXPRESSWAY 83
PEACOCK DR
PINTALE ST
IMPERIAL RD
COLORADO DR
SAN BENITO
LAVACA DR
PALM DR
LEO MOSES DR
RESACA SHORES BLVD
AGAR LN
FROST LN
GARRISON DR
NORTHSHORE DR
N BOWIE ST
N 4TH ST
W STENGER ST
SPUR 54
N W ST
BARTON ST
W JACKSON ST
E JACKSON ST
W HARRISON AVE
GRAHAM RD
SHERO W
ALVAREZ LN
TERRY LN
CHESTER PARK RD
PARK LN E
TIMES RD
OSBORN AVE
BRAZIL RD
Number Twenty-Six Canal
N T ST
N S ST
N R ST
N Q ST
N P ST
N V ST
N U ST
N L ST
N K ST
N J ST
N E ST
N H ST
W EXPRESSWAY 83
PALM BLVD
S PALM BLVD
9TH ST
2ND ST
W LINCOLN ST
S F ST
S G ST
S H ST
S I ST
S J ST
S K ST
S L 1/2 ST
S L ST
S 1ST ST
S 3RD ST
S B ST
S C ST
S D ST
S E ST
GREENBRIER
MELODY LN
1 WAY
FAR OUT
BOTHWELL RD
DIXIELAND RD
MIDLANE DR
HAVERFORD BLVD
ARAGON DR
PALOMA LN
TOPAZ DR
GARRETT RD
Shofner Farms Airport
DIXIELAND ST
City of Harlingen Reservoir
PERK LN
PALOMA BLVD
MAYFIELD RD
TUCKER RD
S PALM COURT DR
TAYLOR RD
THIEME RD
MORRIS RD
FAIRWAY LN
PARK BND
WATER EDGE
NEW HAMPSHIRE ST
HORSESHOE RD
ARROYO BANK DR
RANGERVILLE RD
CHINABERRY RD
ABD RD
SIMMONS RD
MESQUITE RD
CORD 483
491 RD
Harlingen Main Canal
FM-509
ZILLOCK RD
NIXON RD
TIMOTHY ST
CHARLES BARBER RD
S MAYFIELD RD
TURNER ST
HANSON RD
RATLIFF ST
MARYDALE RD
S MARYDALE RD
COMFORT DR
RITA ST
KIRK
AMISTAD DR
UTEX DR
INDUSTRIAL WAY
COMBES ST
PATRICIA ST
LA PALMA ST
DIAZ ST
ELVA ST
SCOTT BROWN
S RESACA DR
MEXICO ST
S FANNIN ST
S BOWIE ST
E BATTS ST
LEAL ST
ASH ST
CHINA ST
EBONY ST
S WILLIAMS RD
WOOLAM RD
RAILROAD AVE
SHAFER RD
LATERAL F CANAL
LATERAL H CANAL
97°45' 625 000mE 26 27 1 240 000 FEET 28 42'30" 30 31 32 33 40' 34 35 36 37 000mE 97°37'30"
26°07'30" 26°07'30"

29 00 PP
PQ
12'30"
10'
16 610 000 FEET
16 580 000 FEET
29 03 000mN
29 01
29 02
29 03
29 04
29 97
29 98
29 99
29 96
29 95
29 94
29 93
29 92
29 91

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 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south zone)

MN 4° 23' 78 MILS
GN 0° 35' 10 MILS
UTM GRID AND 2013 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID: PQ / PP (29 00)
Grid Zone Designation: 14R

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 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 0.6.7

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Interstate Route
US Route
Ramp
State Route
Local Road
4WD
Interstate Route
US Route
State Route

Santa Rosa	Willamar SW	Paso Real
La Feria	Harlingen	Rio Hondo
Santa Maria	La Paloma	Olmito

ADJOINING 7.5' QUADRANGLES

Imagery.....NAIP, April 2010
Roads.....©2006-2012 TomTom
Names.....GNIS, 2012
Hydrography.....National Hydrography Dataset, 2010
Contours.....National Elevation Dataset, 2009
Boundaries.....Census, IBWC, IBC, USGS, 1972 - 2012

HARLINGEN, TX
2013

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

The National Map US Topo

LA FERIA QUADRANGLE
TEXAS
7.5-MINUTE SERIES

97°52'30" 97°45' 26°15' 26°07'30" 50' 47'30"

1 220 000 FEET

16 610 000 FEET

1 190 000 FEET

16 580 000 FEET

Valley Acres Reservoir
Grand Acres
Tiocano Lake Bed
Ratamosa
Old Reb Airport
La Feria Reservoir
Arroyo Alto
Primera
Palm Valley
Stuart Place
Adams Gardens
Reba Bass Lake
Restlawn Memorial Park
Solis
San Francisco Cemeteries
MERCEDES
LA FERIA
Bixby
HARLINGEN

1 MILE RADIUS
PALM VALLEY, TEXAS CITY LIMITS

HIDALGO CO
CAMERON CO

Arroyo Colorado
Wilson Canal
Evans Canal

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 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south zone)

MN 4° 27' 79 MILS
GN 0° 31' 9 MILS
UTM GRID AND 2013 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

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National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.7

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Interstate Route	State Route
US Route	Local Road
Ramp	4WD

Interstate Route · US Route · State Route

Edcouch	Santa Rosa	Willamar SW
Mercedes	La Feria	Harlingen
Progreso	Santa Maria	La Paloma

ADJOINING 7.5' QUADRANGLES

Imagery	NAIP, April 2010
Roads	©2006-2012 TomTom
Names	GNIS, 2012
Hydrography	National Hydrography Dataset, 2010
Contours	National Elevation Dataset, 2008
Boundaries	Census, IBWC, IBC, USGS, 1972 - 2012

U.S. National Grid
100,000-m Square ID: PQ / PP 2900
Grid Zone Designation: 14R

LA FERIA, TX
2013