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

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

Southwest Convenience Stores, LLC. (CN601563778) operates the wastewater treatment plant DK #218 (RN102349438), an activated sludge package plant and associated evaporation pond. The facility is located at 19765 US Highway 287, 1 mile southeast of Harrold, Wilbarger County, Texas 76364.

This application is for a renewal to dispose of a daily average flow not to exceed 4,700 gallons per day of treated domestic wastewater via an evaporation pond with an area of 1.6 acres and a storage capacity of 19.2 acre-feet. This permit will not authorize a discharge of pollutants into water of the state.

Activated sludge package treatment plant uses extended aeration modification of the activated sludge process. Organic waste mixed with waste water and aerated for approximately 24-hours prior to passing to clarifier. In the clarifier the sludge is allowed to settle for approximately 4-hours before returning to aeration zone. Returned sludge is mixed with more raw sewage to repeat process. Water separated from mixed liquor flows over a wier and into chlorination tank. Chlorine is metered into chlorination tank to disinfect the treated water prior to discharge to evaporation pond. The sludge holding tank is used to hold excess sludge that must be occasionally removed from the clarifier to maintain a suitable degree of treatment. A bar screen is used to remove large trash from the waste as it enters the plant. Blowers are used to provide compressed air for the process. Air diffusers are used to diffuse compressed air into the aeration zone. Sludge and scum collection is used to collect the sludge from the clarifier and floating scum on the waste surface of the clarifier and returned to the aeration zone or disposal. An air lift pump is used to transfer sludge and scum from the clarifier to the aeration zone and discharge excess sludge. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow for 24 hours of storage.

Treated effluent is gravity fed from the wastewater treatment plant to the evaporation pond for final disposal.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0003123000

APPLICATION. Southwest Convenience Stores, LLC, 2210 West 2nd Street, Odessa, Texas 79763, which owns a retail motor fuels sale, convenience store, and restaurant operation, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0003123000 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 4,700 gallons per day via evaporation. The facility and disposal area are located at 19765 U.S. Highway 287 East, near the city of Harrold, in Wilbarger County, Texas 76364. TCEQ received this application on May 14, 2025. The permit application will be available for viewing and copying at Wilbarger County Courthouse, Office of County Clerk, 1700 Wilbarger Street, Vernon, 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=-99.008266,34.071318&level=18

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

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application**

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

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

Further information may also be obtained from Southwest Convenience Stores, LLC at the address stated above or by calling Mr. Greg Jackson, Project Manager/EE&G Inc, at (972) 383-0001.

Issuance Date: June 26, 2025

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601563778		RN 102349438

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:

Southwest Convenience Stores LLC

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800189230	17526799733	752679733	N/A

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

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

13. Independently Owned and Operated?
☒ Yes ☐ No

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

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

15. Mailing Address:

2210 West 2nd Street

City	Odessa	State	TX	ZIP	79763	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	scott.prall@delekus.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(432) 559-0112		( ) -

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.)*

DK #218

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	19765 US Highway 287 East							
	City	Harrold	**State**	TX	**ZIP**	76364	**ZIP + 4**	5416
24. County								

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

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	
Harrold			Tx	76364	

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

27. Latitude (N) In Decimal:	34.071072		**28. Longitude (W) In Decimal:**	-99.008339	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
5541		447190	

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

Fueling Station/Convenience Store

34. Mailing Address:	**2210 West 2nd Street**							
	City	**Odessa**	**State**	**TX**	**ZIP**	**79763**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(432) 559-112		( ) -

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
			46347	
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0003123000			

SECTION IV: Preparer Information

40. Name:	Greg Jackson	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(972) 383-0001		(972) 383-0005	gjackson@ee-g.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:	Southwest Convenience Stores LLC.	**Job Title:**	Senior Manager
Name *(In Print):*	Scott Prall	**Phone:**	(432) 559- **0112**
Signature:		**Date:**	5-28-25

Table of Contents

ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: Southwest Convenience Stores, LLC

PERMIT NUMBER (If new, leave blank): WQ00 03123000

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

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Worksheet 8.0	☐	☒
Administrative Report 1.1	☒	☐	Worksheet 9.0	☐	☒
SPIF	☐	☒	Worksheet 10.0	☐	☒
Core Data Form	☒	☐	Worksheet 11.0	☐	☒
Summary of Application (PLS)	☒	☐	Worksheet 11.1	☐	☒
Public Involvement Plan Form	☐	☒	Worksheet 11.2	☐	☒
Technical Report 1.0	☒	☐	Worksheet 11.3	☐	☒
Worksheet 1.0	☐	☒	Original USGS Map	☒	☐
Worksheet 2.0	☐	☒	Affected Landowners Map	☐	☒
Worksheet 3.0	☒	☐	Landowner Disk or Labels	☐	☒
Worksheet 3.1	☒	☐	Flow Diagram	☒	☐
Worksheet 3.2	☐	☒	Site Drawing	☒	☐
Worksheet 3.3	☐	☒	Original Photographs	☒	☐
Worksheet 4.0	☐	☒	Design Calculations	☒	☐
Worksheet 4.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 5.0	☐	☒	Water Balance	☒	☐
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893-inst[1]).

Item 1. Application Information and Fees (Instructions, Page 26)

a. Complete each field with the requested information, if applicable.

Applicant Name: Southwest Convenience Stores, LLC

Permit No.: WQ0003123000

EPA ID No.: TX0N/A

Expiration Date: 12/28/2025

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

☐ Reverse Osmosis Water Treatment (reverse osmosis water treatment wastewaters only)

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

☒ Active ☐ Inactive

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

☐ TPDES Permit ☒ TLAP ☐ TPDES with TLAP component

e. Check the box next to the appropriate application type.

☐ New

☐ Renewal with changes ☒ Renewal without changes

☐ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Click to enter text.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

[1] https://www.tceq.texas.gov/publications/search_forms.html

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $350	☐ $350	☒ $315	☐ $150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $1,250	☐ $1,250	☐ $1,215	☐ $150
Major facility	N/A [2]	☐ $2,050	☐ $2,015	☐ $450

h. Payment Information

Mailed

Check or money order No.: 16742 .

Check or money order amt.: 315.00.

Named printed on check or money order: EE&G. Inc Operating Account.

Epay

Voucher number: Click to enter text.

Copy of voucher attachment: Click to enter text.

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN601563778

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: Southwest Convenience Stores,LLC

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr. Full Name (Last/First Name): Prall, Scott

Title: Sr. Maintenance Manager Credential: N/A

d. Will the applicant have overall financial responsibility for the facility?

☒ Yes ☐ No

[2] All facilities are designated as minors until formally classified as a major by EPA.

[3] https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page 27)

☒ Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text.

Note: The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CNClick to enter text.

Note: Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

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

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ☐ No

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete and attach one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)). If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: Front of Report

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contacted about this application. Indicate if the individual can be contacted about administrative or technical information, or both.

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Jackson, Greg

Title: Project Manager Credential: WWD WW00072707

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City/State/Zip: Azle, Texas, 76020

Phone No: (972) 383-0001 Email: gjackson@ee-g.com

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Owens, Mark

Title: COO Credential: P.G. 1363

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City/State/Zip: Azle, Texas, 76020

Phone No: (972) 383-0001 Email: Mowens@ee-g.com

Attachment: Click to enter text.

Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr. Full Name (Last/First Name): Jackson, Greg

Title: Project Manager Credential: WWD WW0072707

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City/State/Zip: Azle, Texas, 76020

Phone No: (972) 383-0001 Email: gjackson@ee-g.com

b. Prefix: Mr. Full Name (Last/First Name): Auch, Norman

Title: Plant Operator Credential: WWC W0016286

Organization Name: Click to enter text.

Mailing Address: PO Box 984 City/State/Zip: Vernon, Texas, 76385

Phone No: (940) 839-6962 Email: normanauch@yahoo.com

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for 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 (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr. Full Name (Last/First Name): Prall, Scott

Title: Sr. Maintenance Manager Credential: N/A

Organization Name: Southwest Convenience Stores, LLC

Mailing Address: 2210 West 2nd Street City/State/Zip: Odessa, Texas, 79763

Phone No: (432) 559-0112 Email: scott.prall@delekus.com

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr. Full Name (Last/First Name): Auch, Norman

Title: Plant Operator Credential: WWC WW0016286

Organization Name: Click to enter text.

Mailing Address: PO Box 984 City/State/Zip: Vernon, Texas, 76382

Phone No: (940) 839-6962 Email: normanauch@yahoo.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Jackson, Greg

Title: Project Manager Credential: WWD WW00072707

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City/State/Zip: Azle, Texas, 76020

Phone No: (972) 383-0001 Email: gjackson@ee-g.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☒ E-mail: gjackson#ee-g.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

City/State/Zip Code: Click to enter text.

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Jackson, Greg

Title: Project Manager Credential: WWD WW00072707

Organization Name: EE&G, Inc.

Phone No: (972) 383-0001 Email: gjackson#ee-g.com

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: Wilbarger County Courthouse Location within the building: County Clerk Office

Physical Address of Building: 1700 Wilbarger Street

City: Vernon County: Wilbarger

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.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is 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 Item 8 (Regulated Entity and Permitted Site Information.)

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 ☐ N/A

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 and attach the Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS. Attachment: Click to enter text.

g. Complete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment. Attachment: Click to enter text.

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

a. TCEQ issued Regulated Entity Number (RN), if available: RN102349438

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (name known by the community where located): DK #218

c. Is the location address of the facility in the existing permit the same?

☒ Yes ☐ No ☐ N/A (new permit)

Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

d. Owner of treatment facility:

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Southwest Convenience Stores, LLC

Mailing Address: 2210 West 2nd Street City/State/Zip: Odessa, Texas, 79763

Phone No: (432) 559-0112 Email: scott.prall@delekus.com

e. Ownership of facility: ☐ Public ☒ Private ☐ Both ☐ Federal

f. Owner of land where treatment facility is or will be: Southwest Convenience Stores, LLC

Prefix: Mr. Full Name (Last/First Name): Prall, Scott

or Organization Name: Southwest Convenience Stores, LLC

Mailing Address: 2210 West 2nd Street City/State/Zip: Odessa, Texas, 79763

Phone No: (432) 559-0112 Email: scott.prall@delekus.com

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

g. Owner of effluent TLAP disposal site (if applicable):Southwest Convenience Stores, LLC

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

h. Owner of sewage sludge disposal site (if applicable):

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: Click to enter text.

Mailing Address: N/A City/State/Zip: N/A

Phone No:N/A Email: N/A

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: N/A

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

a. Is the facility located on or does the treated effluent cross Native American Land?

☐ Yes ☒ No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

☐ One-mile radius

☒ Applicant's property boundaries

☐ Labeled point(s) of discharge

☒ Effluent disposal site boundaries

☐ Sewage sludge disposal site

☐ Three-miles downstream information

☒ Treatment facility boundaries

☐ Highlighted discharge route(s)

☒ All wastewater ponds

☐ New and future construction

Attachment: Click to enter text.

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

☒ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

d. Are the point(s) of discharge in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

e. Are the discharge route(s) in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.

f. City nearest the outfall(s): Harrold

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

h. 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, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.

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.

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

☒ Yes No or New Permit ☐ Click to enter text.

If no, or a new application, provide an accurate location description: Click to enter text.

j. City nearest the disposal site: Harrold

k. County in which the disposal site is located: Wilbarger

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Effluent is gravity fed to evaporation pond.

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: China Creek, Segment 0205 in Red River Basin.

Item 12. Miscellaneous Information (Instructions, Page 33)

a. 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: N/A

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: N/A

Total amount due: N/A

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: N/A

Amount due: N/A

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0003123000

Applicant Name: Southwest Convenience Stores, LLC

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

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

Signatory name (typed or printed): Scott Prall

Signatory title: Sr. Maintenance Director

Signature: _____ Date: 5-29-25
(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this Twenty Nineth day of May, 2025.

My commission expires on the 18th day of December, 2028.

Donna Millette
Notary Public

Ector
County, Texas

DONNA MILLETTE NOTARY PUBLIC STATE OF TEXAS ID # 616570-3 EXPIRES 12-18-2028

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

☒ Core Data Form (TCEQ Form No. 10400)
(Required for all applications 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
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)

☒ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

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

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

☒ N/A ☐ Landowners Map
(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.

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

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

☒ Original signature per 30 TAC § 305.44 – Blue Ink Preferred
(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)

TECHNICAL REPORT 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

Retail motor fuel sales, convenience store and restaurant operations.

SIC Codes: 5541, 5411

NAICS Code: 447190

b. Describe all wastewater-generating processes at the facility.

Domestic wastewater generated from the Truckstop/ Convenience Store and restaurant services.

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
N/A	N/A	N/A

Attachment: N/A

d. Attach a facility map (drawn to scale) with the following information:

- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
- The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: Attachment 4

e. Is this a new permit application for an existing facility?

☐ Yes ☒ No

If **yes**, provide background discussion: N/A

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: Mid Continent insurance policy

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: N/A

Attachment: N/A

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

☐ Yes ☐ No ☒ N/A (renewal only)

h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ Yes ☐ No

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

If **no**, provide an approximate date of application submittal to the USACE: N/A

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

See Attachment 1

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: 3 & 7

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

☒ Yes ☐ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a – 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	E			
Associated Outfall Number	N/A			
Liner Type (C) (I) (S) or (A)	C			
Alt. Liner Attachment Reference	N			
Leak Detection System, Y/N	N			
Groundwater Monitoring Wells, Y/N	N			
Groundwater Monitoring Data Attachment	N			
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y			
Length (ft)	N/A			
Width (ft)	N/A			
Max Depth From Water Surface (ft), Not Including Freeboard	10			
Freeboard (ft)	2			
Surface Area (acres)	1.6			
Storage Capacity (gallons)	6.2M			
40 CFR Part 257, Subpart D, Y/N	N			
Date of Construction	08/18/2015			

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed.**

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

Attachment: N/A

For TLAP applications: Items 3.c – 3.e are **not required**, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
E001	34°04'15"N	99°00'30"W

Outfall Location Description

Outfall No.	Location Description
E001	Location of final effluent deposition into evaporation pond.

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point
E001	N/A

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
	0.0047	0.0047	0.0047	0.0047	N/A

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
E001	N	Y	Siemens Doppler Ultrasonic

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
E001	N	N	Y	24	30	12

Outfall Wastestream Contributions

Outfall No. **E001**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Restaurant/Convenience Store Domestic Waste	0.0047	100

Outfall No. **N/A**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. **N/A**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: Click to enter text.

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a. Indicate if the facility currently or proposes to:

☐ Yes ☒ No Use cooling towers that discharge blowdown or other wastestreams

☐ Yes ☒ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required.**

b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.

- Manufacturers Product Identification Number
- Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: N/A

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	N/A		
Boilers	N/A		

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 122.26(b)(14)*, commingled with any other wastestream?

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: N/A

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

☒ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.

☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.

☐ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.

☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☐ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Plant: IMC Waste	MSW #2229A
Hauler: IMC Waste Haulers	Reg #20639

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☐ Yes ☒ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: N/A

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: N/A

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** N/A

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: N/A

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

☐ Yes ☐ No

If **yes, Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)
N/A	N/A

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)
N/A	N/A

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☐ Yes ☒ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☐ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. N/A

3. Cooling water is/will be obtained from a reclaimed water source?

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: N/A

4. Cooling water is/will be obtained from an Independent Supplier

☐ Yes ☐ No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: N/A

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

☐ Yes ☐ No

If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f.**

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e.**

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

☐ Yes ☐ No

If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

   ☐ Yes ☐ No

   If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I – New facility subject to 40 CFR Part 125, Subpart I

   ☐ Yes ☐ No

   If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

   ☐ Track I – AIF greater than 2 MGD, but less than 10 MGD
   - Attach information required by *40 CFR §§ 125.86(b)(2)-(4).*

   ☐ Track I – AIF greater than 10 MGD
   - Attach information required by *40 CFR § 125.86(b).*

   ☐ Track II
   - Attach information required by *40 CFR § 125.86(c).*

   Attachment: Click to enter text.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

   ☐ Yes ☐ No

   If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III – New facility subject to 40 CFR Part 125, Subpart N

   ☐ Yes ☐ No

   If **yes**, check the box next to the compliance track selection and provide the requested information.

   ☐ Track I – Fixed facility
   - Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

   ☐ Track I – Not a fixed facility
   - Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

   ☐ Track II – Fixed facility
   - Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

   Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☐ Yes ☒ No

If **yes,** list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

N/A

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes,** list and describe each change individually.

N/A

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes,** list and describe each change individually.

N/A

Item 14. Laboratory Accreditation (Instructions, Page 49)

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: Greg Jackson

Title: Project Manager

Signature: _____

Date: 5/21/2025

WORKSHEET 3.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT

This worksheet **is required** for all applications for a permit to disposal of wastewater by land application (i.e., TLAP)).

Item 1. Type of Disposal System (Instructions, Page 69)

Check the box next to the type of land disposal requested by this application:

- ☐ Irrigation
- ☒ Evaporation
- ☐ Evapotranspiration beds
- ☐ Drip irrigation system
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Surface application
- ☐ Other, specify: Click to enter text.

Item 2. Land Application Area (Instructions, Page 69)

Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)
N/A	N/A	N/A	N/A

Item 3. Annual Cropping Plan (Instructions, Page 69)

Attach the required cropping plan that includes each of the following:

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements
- Supplemental watering requirements
- Crop salt tolerances
- Justification for not removing existing vegetation to be irrigated

Attachment: N/A

Item 4. Well and Map Information (Instructions, Page 70)

a. Check each box to confirm the required information is shown and labeled on the attached USGS map:

☒ The exact boundaries of the land application area

☒ On-site buildings

☒ Waste-disposal or treatment facilities

☒ Effluent storage and tailwater control facilities

☐ Buffer zones

☐ All surface waters in the state onsite and within 500 feet of the property boundaries

☒ All water wells within ½-mile of the disposal site, wastewater ponds, or property boundaries

☐ All springs and seeps onsite and within 500 feet of the property boundaries

Attachment: Click to enter text.

b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

Well and Map Information Table

Well ID	Well Use	Producing? Y/N/U	Open, cased, capped, or plugged?	Proposed Best Management Practice
N/A	N/A	N/A	N/A	N/A

Attachment: N/A

c. Groundwater monitoring wells or lysimeters are/will be installed around the land application site or wastewater ponds.

☐ Yes ☒ No

If **yes**, provide the existing/proposed location of the monitoring wells or lysimeters on the site map attached for Item 4.a. Additionally, attach information on the depth of the wells or lysimeters, sampling schedule, and monitoring parameters for TCEQ review, possible modification, and approval.

Attachment: N/A

d. Attach a short groundwater technical report using *30 TAC § 309.20(a)(4)* as guidance.
Attachment:

Item 5. Soil Map and Soil Information (Instructions, Page 71)

Check each box to confirm that the following information is attached:

a. ☐ USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.

b. ☐ Breakdown of acreage and percent of total acreage for each soil type.

c. ☐ Copies of laboratory soil analyses. **Attachment:** Click to enter text.

Item 6. Effluent Monitoring Data (Instructions, Page 72)

a. Completion of Table 14 **is required** for all **renewal** and **major amendment** applications. Complete the table with monitoring data for the previous two years for all parameters regulated in the current permit. An additional table has been provided with blank headers for parameters regulated in the current permit which are not listed in Table 14.

Table 14 for Outfall No.: E001 **Samples are (check one): ☐ Composite ☒ Grab**

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
See Attachment 8							

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)

b. Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

Additional Parameter Effluent Analysis

Date (mo/yr)							

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. **Attachment:** Click to enter text.

Item 7. Pollutant Analysis (Instructions, Page 72)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Complete Tables 15 and 16.

Table 15 for Outfall No.: E001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	**See Attachment 8**			
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 16 for Outfall No.: Click to enter text. **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

WORKSHEET 3.1

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION

This worksheet **is required** for all applications for a permit to disposal of wastewater by surface land application or evaporation.

Item 1. Edwards Aquifer (Instructions, Page 73)

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

☐ Yes ☒ No

If **no**, proceed to Item 2. If **yes**, complete Items 1.b **and** 1.c.

b. Check the box next to the subchapter applicable to the facility.

☐ 30 TAC Chapter 213, Subchapter A

☐ 30 TAC Chapter 213, Subchapter B

c. If *30 TAC Chapter 213, Subchapter A* applies, attach **either**: 1) a Geologic Assessment (if conducted in accordance with *30 TAC § 213.5*) **or** 2) a report that contains the following:

- A description of the surface geological units within the proposed land application site and wastewater pond area.
- The location and extent of any sensitive recharge features in the land application site and wastewater pond area
- A list of any proposed BMPs to protect the recharge features.

Attachment: Click to enter text.

Item 2. Surface Spray/Irrigation (Instructions, Page 73)

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): N/A

Design application rate (acre-ft/acre/yr): N/A

Design application frequency (hours/day): N/A

Design application frequency (days/week): N/A

Design total nitrogen loading rate (lbs nitrogen/acre/year): N/A

Average slope of the application area (percent): N/A

Maximum slope of the application area (percent): N/A

Irrigation efficiency (percent): N/A

Effluent conductivity (mmhos/cm): N/A

Soil conductivity (mmhos/cm): N/A

Curve number: N/A

Describe the application method and equipment: N/A

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** N/A

Item 3. Evaporation Ponds (Instructions, Page 74)

a. Daily average effluent flow into ponds: 1,620.30 (Daily Average for 2024) gallons per day

b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** 7

Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: N/A

Area of bed(s) (acres): N/A

Depth of bed(s) (feet): N/A

Void ratio of soil in the beds: N/A

Storage volume within the beds (include units): N/A

Description of any lining to protect groundwater: N/A

b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. **Attachment:** N/A

c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** N/A

Item 5. Overland Flow (Instructions, Page 74)

a. Provide the following information on the overland flow:

Area used for application (acres): N/A

Slopes for application area (percent): N/A

Design application rate (gpm/foot of slope width): N/A

Slope length (feet): N/A

Design BOD5 loading rate (lbs BOD5/acre/day): N/A

Design application frequency (hours/day): N/A

Design application frequency (days/week): N/A

b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212*. **Attachment:** Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SUBSURFACE IRRIGATION (NON-DRIP)

This worksheet **is required** for all applications for a permit to disposal of wastewater by subsurface land application.

☐ Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

Item 1. Edwards Aquifer (Instructions, Page 75)

a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?

☐ Yes ☐ No

b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?

☐ Yes ☐ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

Item 2. Subsurface Application (Instructions, Page 75)

a. Check the box next to the type of subsurface land disposal system requested:

☐ Conventional drainfield, beds, or trenches

☐ Low pressure dosing

☐ Other: Click to enter text.

b. Provide the following information on the irrigation operations:

Application area (acres): Click to enter text.

Area of drainfield (square feet): Click to enter text.

Application rate (gal/square ft/day): Click to enter text.

Depth to groundwater (feet): Click to enter text.

Area of trench (square feet): Click to enter text.

Dosing duration per area (hours): Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area (inches/day): Click to enter text.

Soil infiltration rate (inches/hour): Click to enter text.

Storage volume (gallons): Click to enter text.

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

Soil classification: Click to enter text.

c. Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation. **Attachment:** Click to enter text.

ATTACHMENTS

ATTACHMENT 1

TREATMENT SYSTEM DESCRIPTION

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

Southwest Convenience Stores, LLC. (CN601563778) operates the wastewater treatment plant (RN102349438), an activated sludge package plant and associated evaporation pond. The facility is located at 19765 US Highway 287, 1 mile southeast of Harrold, Wilbarger County, Texas 76364.

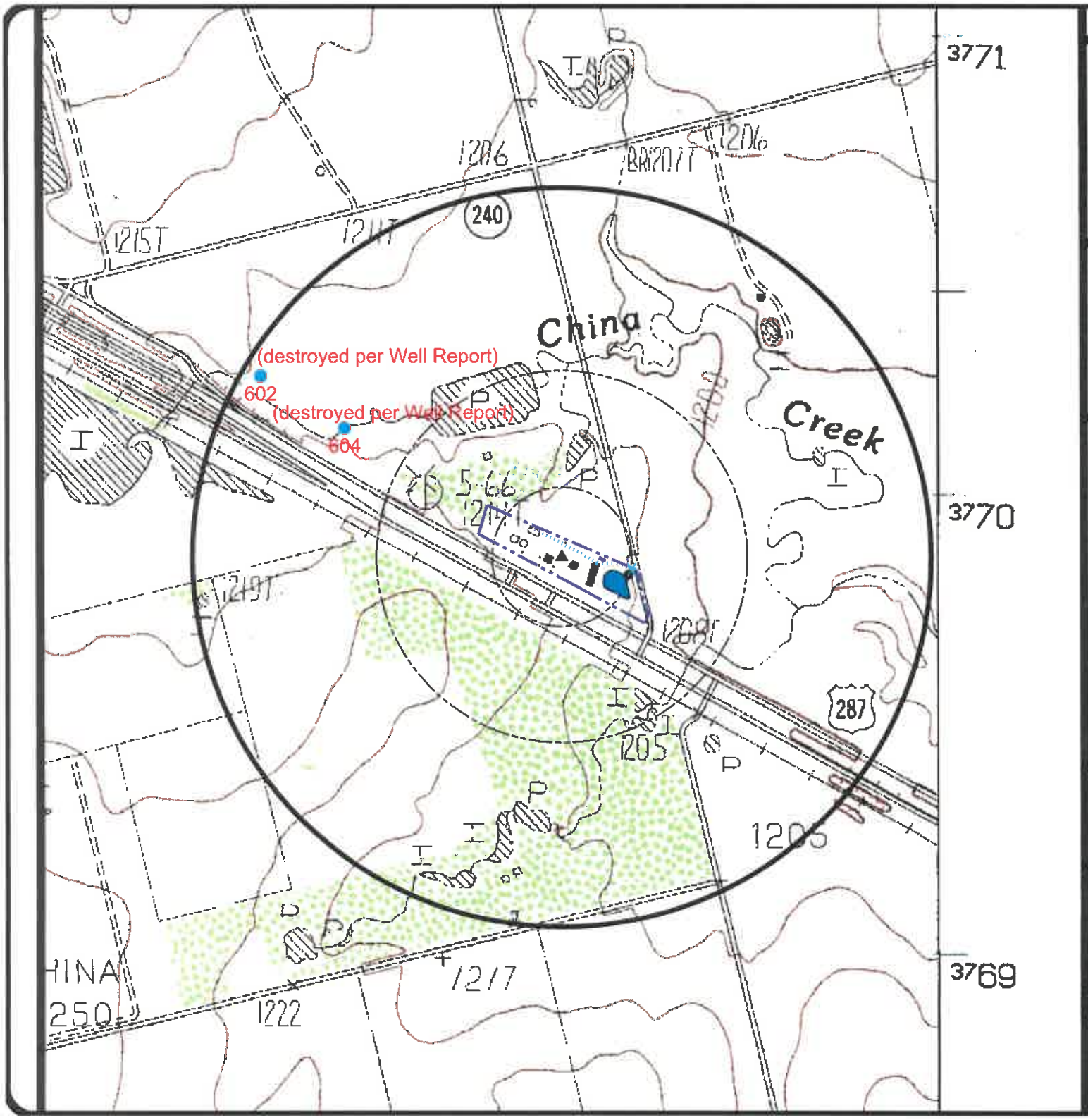
This application is for a renewal to dispose of a daily average flow not to exceed 4,700 gallons per day of treated domestic wastewater via an evaporation pond with an area of 1.6 acres and a storage capacity of 19.2 acre-feet. This permit will not authorize a discharge of pollutants into water of the state.

Activated sludge package treatment plant uses extended aeration modification of the activated sludge process. Organic waste mixed with waste water and aerated for approximately 24-hours prior to passing to clarifier. In the clarifier the sludge is allowed to settle for approximately 4-hours before returning to aeration zone. Returned sludge is mixed with more raw sewage to repeat process. Water separated from mixed liquor flows over a wier and into chlorination tank. Chlorine is metered into chlorination tank to disinfect the treated water prior to discharge to evaporation pond. The sludge holding tank is used to hold excess sludge that must be occasionally removed from the clarifier to maintain a suitable degree of treatment. A bar screen is used to remove large trash from the waste as it enters the plant. Blowers are used to provide compressed air for the process. Air diffusers are used to diffuse compressed air into the aeration zone. Sludge and scum collection is used to collect the sludge from the clarifier and floating scum on the waste surface of the clarifier and returned to the aeration zone or disposal. An air lift pump is used to transfer sludge and scum from the clarifier to the aeration zone and discharge excess sludge. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow for 24 hours of storage.

Treated effluent is gravity fed from the wastewater treatment plant to the evaporation pond for final disposal.

ATTACHMENT 2

USGS MAP



LEGEND

- Site Location
- 1/2-Mile Radius of Site Location
- Water Well Locations
- Property Boundary
- Evaporation Pond
- Wastewater Treatment Facility
- Stormwater Outfall
- Stormwater Discharge Route

QUADRANGLE LOCATION

HARROLD, TEXAS
N3400–W9907.5/7.5

0 1/8 1/4
Miles

0 500 1000
Feet

0 0.125 0.25
Kilometers

N

EE&G

EE&G, Inc. (EE&G)

Southwest Convenience Stores, LLC

DK #218
19765 Highway 287 East
Harrold, Texas

Project No. 03.1002FT | Date: 5/21/2025

Attachment 2

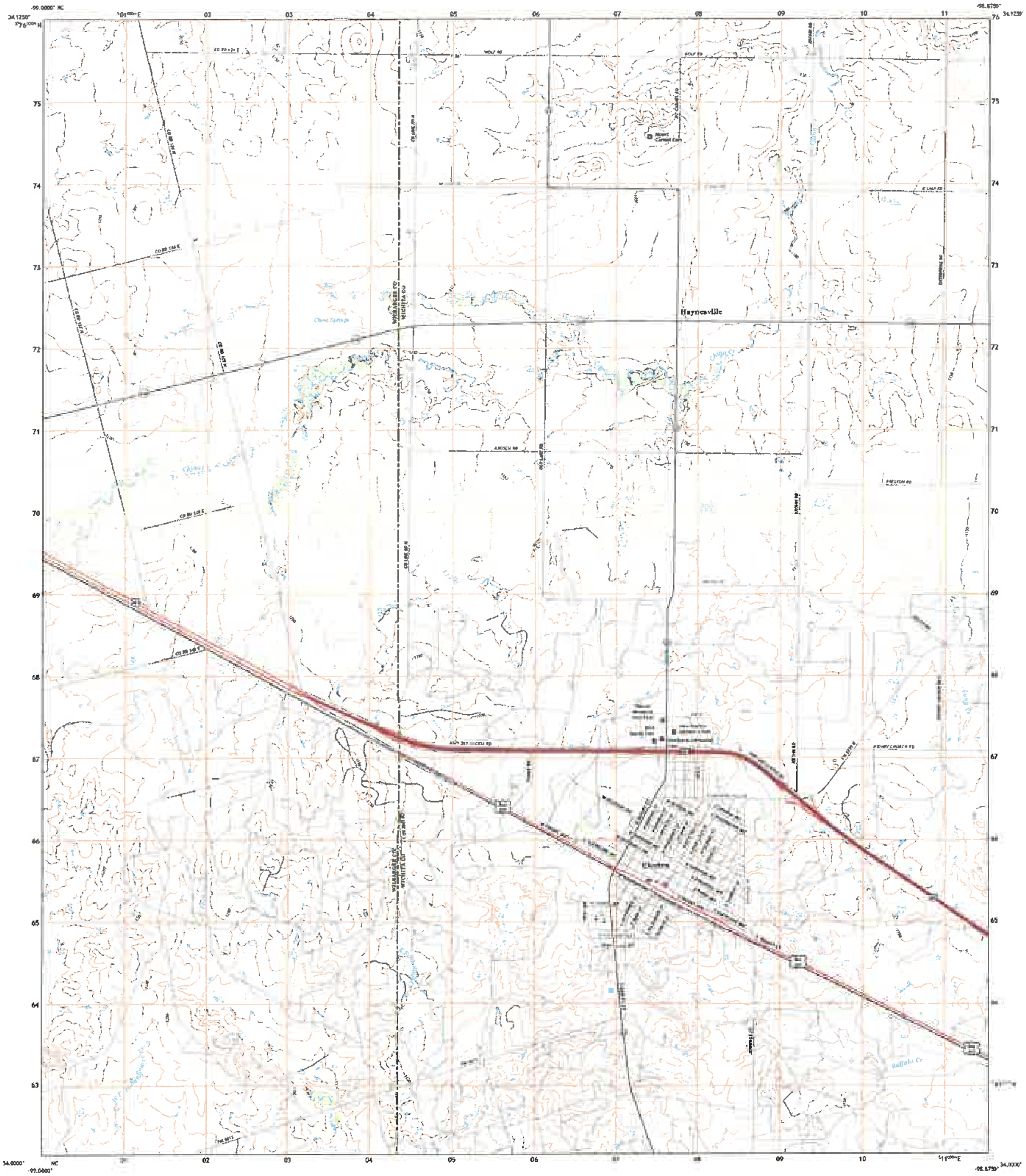
USGS TOPOGRAPHIC MAP/WATER WELL MAP

Scale: 1" = 1,000'

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

The National Map
US Topo

ELECTRA 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 14S
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2016
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2003 - 2018
Contours.....National Elevation Dataset, 2019 - 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available

UTM GRID AND 2018 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

KILOMETERS
METERS
MILES
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.

QUADRANGLE LOCATION

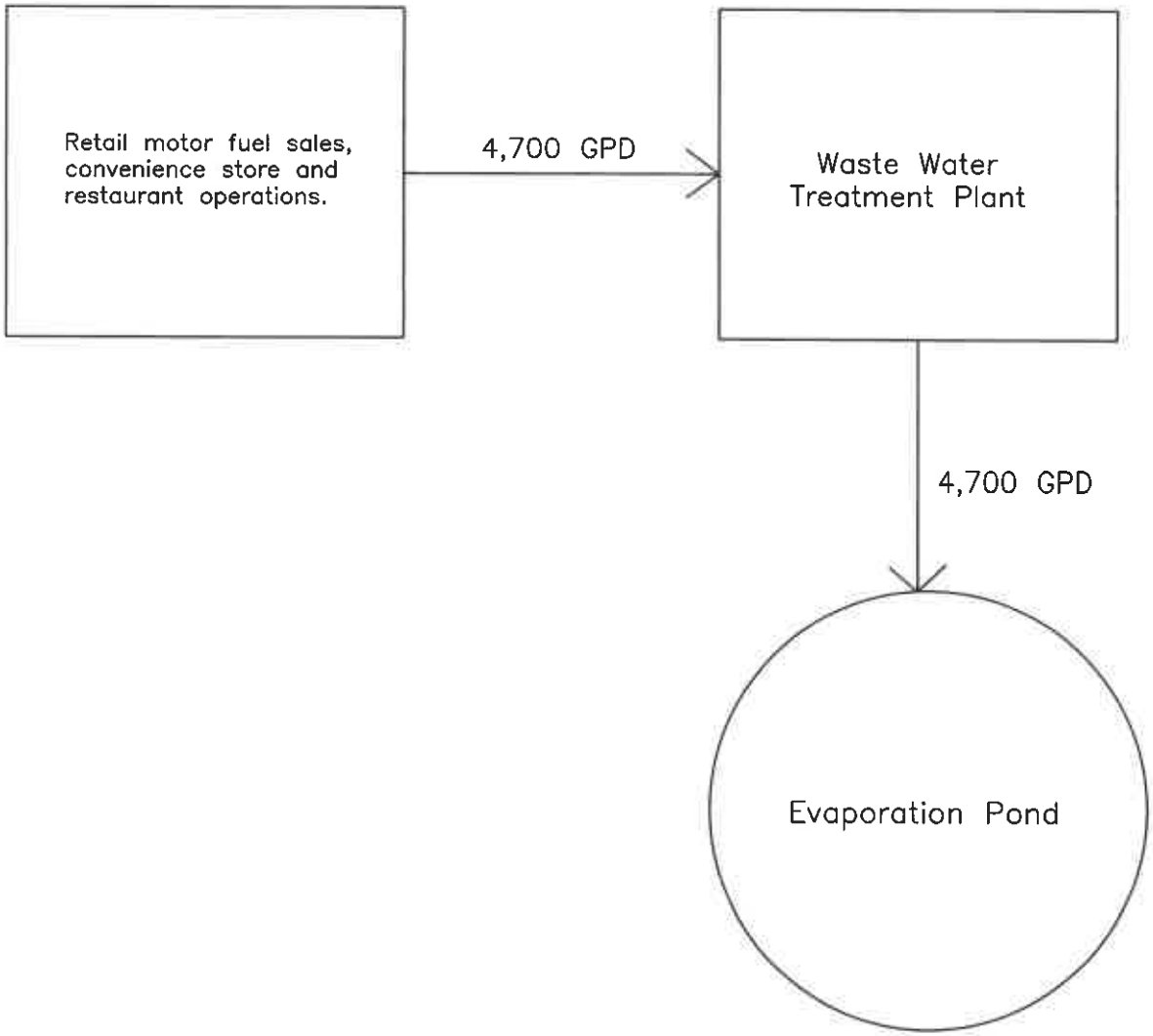
1 Davidson
2 Cowboy Springs
3 Sugar Creek
4 Harrold
5 Sunshine Hill
6 Lake Electra
7 Beaver Creek
8 Fowlkes

ADJOINING QUADRANGLES

ELECTRA, TX
2022

ATTACHMENT 3

FLOW DIAGRAM



EE&G EE&C, Inc. (EE&C)

Southwest Convenience Stores, LLC

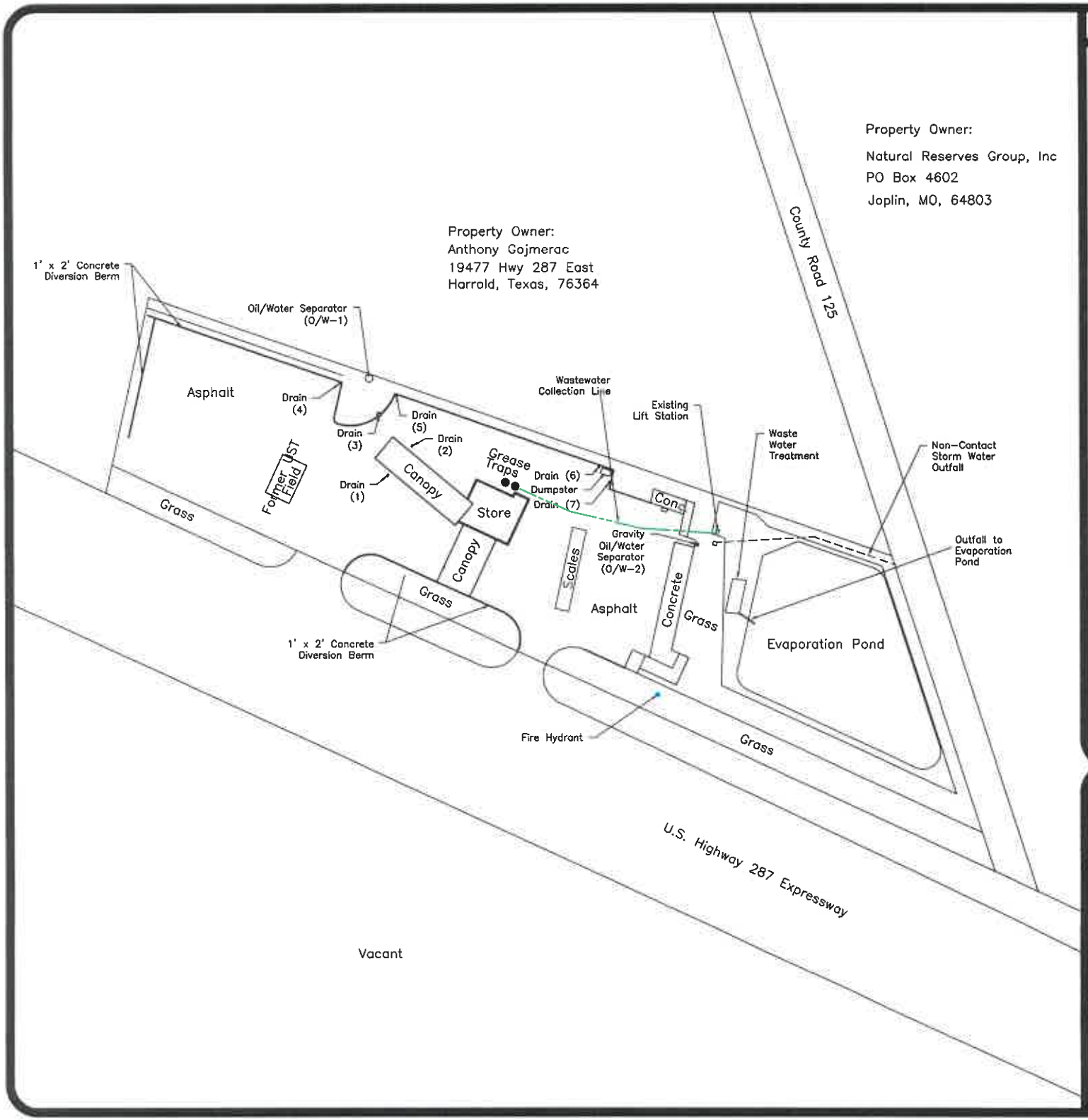
Flow Diagram

DK #218
19765 Highway 287 East
Harrold, Texas

Project No. 03.1002FT | Date: 5/21/2025

ATTACHMENT 4

SITE PLAN



LEGEND

N

0" 1/2" 1"

0' 100' 200'

EE&G

EE&G, Inc. (EE&G)

Southwest Convenience Stores, LLC

DK #218
19765 Highway 287 East
Harrold, Texas

Project No. 03.1002FT | Date: 5/21/2025

Attachment 4

SITE PLAN
With Landowner Information

Scale: 1" = 200'

ATTACHMENT 5

PHOTOGRAPHS

Wastewater Package Plant
View to the North

View of Waste Water Outfall to Southeast

Evaporation Pond Water Level
View to the East

View of Lift Station to Northwest

Photo Showing Flowmeter Display

EE&G, Inc.

Waste Water Permit Renewal
Photos Taken 04/17/2025
DK #218
19765 Hwy 287 East
Harrold, Wilbarger County, Texas

Project # 03.1002FT | Date: 05/21/2025

Site
Photographs

ATTACHMENT 6

LAB ANALYTICAL DATA

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD $_{(5\text{-day})}$	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
04/11/23	5,541,760	1,490.9	8.7	<12.5	7.20
04/12/23			IMC Hauled 1,150 Gals from Grease Trap		
04/14/23	5,545,168	1,595.9			
04/17/23	5,549,236	1,421.6			
04/20/23	5,552,799	1,226.6			
04/23/23	5,556,661	1,277.0			
04/24/23			IMC Hauled 1,100 Gals from Grease Trap		
04/25/23	5,559,374	1,267.3	7.0	<12.5	6.99
04/28/23	5,562,646	1,230.9			
04/30/23	5,566,144	1,354.7			
05/03/23	5,569,669	1,286.9			
05/06/23	5,574,606	1,495.0			
05/09/23	5,578,115	1,330.1	***174.0***	*67.8*	7.47
05/09/23			IMC Hauled 1,150 Gals from Grease Trap		
05/11/23	5,579,679	1,251.3			
05/15/23	5,585,820	1,246.0			
05/19/23	5,590,296	1,218.1			
05/23/23	5,595,223	1,295.3	IMC Hauled 1,150 Gals from Grease Trap		
05/23/23			IMC Hauled 4,959 Gals Sludge from WWTP		
05/26/23	5,596,681	987.4			
05/29/23	5,603,321	1,302.5	15.6	20.0	7.65
06/01/23	5,606,805	1,286.9			
06/03/23	5,609,826	1,643.1			
06/05/23	5,612,972	1,378.7	15.8	18.0	7.57
06/07/23	5,615,392	1,431.2	IMC Hauled 1,150 Gals from Grease Trap		
06/10/23	5,619,554	1,389.7			
06/13/23	5,623,733	1,345.1	6.7	15.0	7.72
06/15/23	5,626,844	1,431.5			
06/18/23	5,629,869	1,289.4			
06/19/23			IMC Hauled 1,150 Gals from Grease Trap		
06/21/23	5,634,978	1,405.6			
06/25/23	5,642,833	1,598.9			
06/27/23	5,645,199	1,703.3			
06/30/23	5,649,183	1,578.3	IMC Hauled 3,300 Gals Sludge from WWTP		
End of 2nd Qtr 2023					
07/02/23	5,652,393	1,365.7			
07/05/23	5,655,741	1,317.8	36.6	29.5	7.69
07/08/23	5,660,499	1,414.5			
07/11/23	5,664,874	1,426.5			
07/14/23	5,668,826	1,369.4			
07/17/23	5,675,218	1,623.1			
07/19/23	5,677,258	1,523.5	IMC Hauled 3,200 Gals Sludge from WWTP		
07/22/23	5,680,392	1,410.7			
07/25/23	5,684,744	1,447.1	23.4	18.5	7.76
07/26/23			IMC Hauled 1,150 Gals from Grease Trap		
07/27/23	5,687,279	1,206.1			
07/28/23			IMC Hauled 3,000 Gals Sludge from WWTP		
07/29/23	5,690,151	1,289.3			
08/01/23	5,693,863	1,347.1	24.1	32.1	7.76
08/04/23	5,697,595	1,285.1			
08/07/23	5,703,213	1,448.5			
08/09/23	5,708,928	1,707.0	17.2	37.1	7.63
08/10/23			IMC Hauled 1,150 Gals from Grease Trap		

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
08/12/23	5,712,504	1,694.6			
08/15/23	5,716,642	1,731.5			
08/18/23	5,722,390	1,743.4			
08/21/23	5,729,544	1,718.0			
08/23/23			IMC Hauled 1,150 Gals from Grease Trap		
08/25/23	5,739,304	2,061.5	IMC Hauled 5,926 Gals Sludge from WWTP		
08/27/23	5,740,843	2,016.8			
08/29/23	5,744,887	2,045.2			
08/31/23	5,748,560	1,901.6			
09/02/23	5,755,145	1,980.1			
09/05/23	5,764,003	2,573.3	2.3	<12.5	7.71
09/06/23	5,765,653	2,595.8	IMC Hauled 1,150 Gals from Grease Trap		
09/10/23	5,775,153	2,659.3			
09/13/23	5,783,988	2,622.1			
09/16/23	5,791,863	2,532.7			
09/18/23	5,793,576	2,326.9			
09/21/23	5,795,984	1,893.7	5.5	<12.5	7.14
09/24/23	5,799,714	1,429.6			
09/25/23			IMC Hauled 1,150 Gals from Grease Trap		
09/27/23	5,803,075	1,019.3			
09/29/23			IMC Hauled 3,805 Gals Sludge from WWTP		
09/30/23	5,805,405	985.8			
End of 3rd Qrt 2023					
10/04/23	5,808,814	986.9	14.4	<12.5	6.88
10/07/23	5,813,011	1,022.8			
10/10/23			IMC Hauled 1,150 Gals from Grease Trap		
10/10/23	5,815,860	983.5			
10/12/23	5,817,565	1,013.3	12.0	<12.5	7.01
10/14/23	5,820,559	1,174.5			
10/16/23	5,823,102	1,121.2			
10/18/23	5,825,736	1,234.5			
10/21/23	5,829,445	1,320.0			
10/24/23			IMC Hauled 1,150 Gals from Grease Trap		
10/25/23	5,834,626	1,278.8			
10/27/23	5,837,723	1,329.2			
10/30/23	5,842,675	1,411.6	IMC Hauled 6,000 Gals Sludge from WWTP		
10/31/23	5,842,703	1,325.8			
11/03/23	5,844,207	1,064.6	IMC Hauled 1,150 Gals from Grease Trap		
11/06/23	5,847,404	968.1	10.1	<12.5	5.94
11/08/23	5,849,207	725.8			
11/10/23	5,851,520	881.7			
11/13/23	5,858,201	1,399.4			
11/15/23	5,862,332	1,658.7	12.7	<12.5	6.07
11/17/23	5,867,298	2,010.1	IMC Hauled 1,150 Gals from Grease Trap		
11/20/23	5,877,455	2,593.5			
11/23/23	5,884,102	2,590.1			
11/26/23	5,891,850	2,683.5			
11/28/23	5,895,604	2,573.3			
11/29/23	5,897,035	2,175.6	IMC Hauled 3,000 Gals Sludge from WWTP		
12/01/23	5,898,098	1,749.5	IMC Hauled 1,150 Gals from Grease Trap		
12/05/23	5,904,831	1,442.3	<6.0	<12.5	6.55
12/06/23	5,905,610	1,250.8			
12/09/23	5,911,048	1,401.3			
12/12/23	5,916,007	1,628.1			

SCS
Southwest Convenience Stores, Inc.

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

EE&G

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD $_{(5\text{-day})}$	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
12/15/23	5,924,555	1,972.4	IMC Hauled 1,150 Gals from Grease Trap		
12/19/23	5,929,275	1,820.4			
12/20/23	5,931,080	1,821.1	17.6	<12.5	6.80
12/23/23	5,940,800	2,253.9			
12/26/23	5,949,348	2,253.9			
12/27/23			IMC Hauled 3,000 Gals Sludge from WWTP		
12/28/23	5,952,144	2,541.0			
12/31/23	5,958,629	2,504.5			
End of 4th Qrt and Annual 2023					
01/03/24	5,964,751	1,925.4	3.85	<12.5	7.15
01/04/24			IMC Hauled 1,150 Gals from Grease Trap		
01/06/24	5,968,651	1,834.1			
01/09/24	5,972,741	1,716.4			
01/11/24	5,974,826	1,259.4			
01/13/24	5,978,156	1,357.9			
01/16/24	5,984,348	1,658.1			
01/17/24			IMC Hauled 1,150 Gals from Grease Trap		
01/18/24	5,985,689	1,551.9	IMC Hauled 6,000 Gals Sludge from WWTP		
01/20/24	5,985,706	1,078.6			
01/22/24	5,987,576	538.0			
01/24/24			IMC Hauled 3,000 Gals Sludge from WWTP		
01/25/24	5,990,005	616.6			
01/27/24	5,993,239	1,076.1			
01/29/24	5,995,835	1,179.9	68.4	56.0	5.97
02/01/24	5,998,931	1,275.1			
02/04/24	6,004,453	1,401.8			
02/06/24	6,007,329	1,436.8			
02/09/24	6,011,174	1,530.4	IMC Hauled 3,700 Gals Sludge from WWTP		
02/10/24	6,011,181	1,121.3	IMC Hauled 1,150 Gals from Grease Trap		
02/13/24	6,015,180	1,121.6	36.4	17.0	6.53
02/16/24	6,019,212	1,148.3	IMC Hauled 1,150 Gals from Grease Trap		
02/19/24	6,025,282	1,566.8	24.3	13.5	6.68
02/21/24	6,027,719	1,567.4			
02/24/24	6,032,317	1,638.1			
02/27/24	6,036,088	1,350.8			
02/28/24	6,037,343	1,374.9	IMC Hauled 3,500 Gals Sludge from WWTP		
03/01/24	6,039,998	1,280.2			
03/03/24	6,041,992	1,180.8			
03/05/24	6,044,561	1,203.0	7.97	<12.5	6.33
03/06/24	6,046,197	1,239.8			
03/09/24	6,054,572	2,096.7			
03/10/24	6,058,890	2,865.8			
03/12/24			IMC Hauled 1,150 Gals from Grease Trap		
03/13/24	6,064,690	2,641.9	9.89	<12.5	7.43
03/17/24	6,074,475	2,487.9			
03/18/24	6,076,184	2,161.8			
03/21/24	6,080,499	1,976.1			
03/23/24	6,084,607	1,688.7			
03/26/24	6,089,824	1,705.0			
03/27/24	6,091,022	1,753.8			
03/28/24			IMC Hauled 1,150 Gals from Grease Trap		
03/28/24			IMC Hauled 3,500 Gals from Grease Trap		
03/30/24	6,094,314	1,386.7			
End of 1st Qrt 2024					

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
04/02/24	6,098,838	1,287.7	18.9	18.0	7.13
04/06/24	6,104,124	1,310.2			
04/09/24	6,110,688	1,637.4			
04/11/24	6,114,641	1,755.9			
04/14/24	6,119,193	1,883.6			
04/16/24	6,122,019	1,618.7	21.3	27.5	7.23
04/16/24			IMC Hauled 1,150 Gals from Grease Trap		
04/19/24	6,126,120	1,434.9			
04/22/24	6,131,531	1,542.3			
04/24/24			IMC Hauled 4,000 Gals Sludge from WWTP		
04/26/24	6,136,057	1,403.8			
04/29/24	6,141,365	1,524.5			
05/01/24	6,144,636	1,456.1			
05/03/24	6,148,716	1,808.4			
05/06/24	6,154,404	1,862.7	3.82	12.5	7.42
05/09/24	6,157,792	1,644.5			
05/13/24	6,164,160	1,544.4			
05/15/24	6,167,075	1,407.9			
05/18/24	6,171,718	1,547.3			
05/21/24	6,176,952	1,599.0	28.3	23.0	7.51
05/24/24	6,182,741	1,740.7			
05/28/24	6,190,136	1,841.8			
05/29/24	6,192,021	1,883.6	IMC Hauled 6,000 Gals Sludge from WWTP		
06/01/24	6,194,507	1,470.8			
06/03/24			IMC Hauled 1,150 Gals from Grease Trap		
06/04/24	6,200,354	1,459.7	34.8	31.5	7.66
06/06/24	6,202,673	1,331.5			
06/08/24	6,206,146	1,662.7			
06/10/24	6,208,579	1,370.8			
06/13/24	6,214,906	1,747.6			
06/14/24	6,215,831	1,614.2			
06/17/24	6,223,704	2,160.7	31.8	28.5	***No pH Taken
06/20/24	6,229,324	2,059.7			
06/24/24	6,238,950	2,311.9			
06/26/24			IMC Hauled 3,000 Gals Sludge from WWTP		
06/28/24	6,246,474	2,070.0			
End of 2nd Qrt 2024					
07/01/24	6,255,243	2,356.3	34.2	37.5	***No pH Taken
07/04/24	6,260,738	2,178.8			
07/07/24	6,268,718	2,471.6			
07/09/24	6,272,065	2,102.8			
07/12/24			IMC Hauled 1,150 Gals from Grease Trap		
07/13/24	6,279,890	2,128.0			
07/17/24	6,289,789	2,107.1			
07/21/24	6,289,789	1,477.0			
07/23/24	6,300,605	2,071.5			
07/27/24	6,306,879	1,709.0			7.75
07/29/24	6,310,982	2,649.1	25.2	**110.0**	7.80
07/31/24	6,313,586	1,622.6	IMC Hauled 3,000 Gals Sludge from WWTP		
08/03/24	6,319,902	1,860.4			
08/06/24	6,325,879	1,862.1			
08/09/24	6,328,916	1,703.3			
08/12/24	6,334,009	1,567.4	20.2	46.5	7.82
08/13/24			IMC Hauled 1,150 Gals from Grease Trap		

SCS
Southwest Compliance Services, Inc

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

EE&G

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
08/15/24	6,337,087	1,245.3			
08/18/24	6,340,186	1,252.2			
08/20/24	6,342,067	1,007.3			
08/21/24	6,342,975	981.3	27.9	77.0	7.74
08/26/24	6,348,401	1,026.9			
08/28/24	6,350,199	1,016.5	IMC Hauled 6,000 Gals Sludge from WWTP		
08/31/24	6,350,994	801.9			
09/03/24	6,356,637	1,029.5	23.8	12.5	7.89
09/05/24	6,358,855	1,082.0			
09/06/24	6,360,439	1,574.2			
09/08/24	6,362,990	1,270.6			
09/11/24	6,366,000	1,190.8			
09/14/24	6,369,925	1,185.8			
09/17/24	6,373,818	1,203.1	15.8	31.0	7.72
09/18/24	6,374,541	1,220.1			
09/21/24	6,379,080	1,307.9			
09/24/24	6,384,353	1,505.0			
09/25/24			IMC Hauled 8,700 Gals Sludge from WWTP		
09/27/24	6,387,374	1,425.9			
09/30/24	6,391,547	1,385.2			
End of 3rd Qrt 2024					
10/02/24	6,393,798	1,180.6			
10/03/24			IMC Hauled 1,150 Gals from Grease Trap		
10/05/24	6,397,841	1,308.4			
10/07/24	6,400,514	1,281.0	8.9	24.0	7.58
10/09/24	6,402,649	1,264.4			
10/12/24	6,407,403	1,366.0			
10/15/24	6,411,560	1,380.8			
10/17/24	6,413,422	1,346.6	IMC Hauled 6,000 Gals Sludge from WWTP		
10/20/24	6,414,892	936.1			
10/21/24	6,416,650	848.3	IMC Hauled 1,150 Gals from Grease Trap		
10/23/24	6,418,467	840.8	32.0	19.5	7.76
10/25/24	6,420,130	1,047.6			
10/28/24	6,424,731	1,154.4			
10/30/24			IMC Hauled 3,000 Gals Sludge from WWTP		
10/31/24	6,426,753	1,035.8			
11/01/24	6,428,065	1,133.6			
11/04/24	6,433,758	1,289.6			
11/06/24	6,436,634	1,646.8			
11/07/24	6,437,747	1,613.7	**176.0**	**134.0**	7.74
11/11/24	6,444,687	1,561.3			
11/13/24	6,447,523	1,555.6			
11/16/24	6,452,267	1,613.3			
11/19/24	6,457,293	1,575.8	IMC Hauled 1,150 Gals from Grease Trap		
11/19/24			IMC Hauled 6,000 Gals Sludge from WWTP		
11/21/24	6,457,293	1,221.3			
11/23/24	6,463,857	1,655.7			
11/25/24	6,468,194	1,816.8	**184.0**	**104.0**	7.66
11/28/24	6,476,046	2,679.0			
12/01/24	6,483,976	2,514.9			
12/03/24	6,488,702	2,563.5			
12/06/24	6,493,537	2,186.4			
12/09/24	6,499,753	1,972.1	13.2	27.5	7.57
12/12/24	6,504,704	1,778.0			

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
12/15/24	6,509,895	1,817.6			
12/18/24	6,514,533	1,642.2	IMC Hauled 3,300 Gals Sludge from WWTP		
12/22/24	6,525,651	2,094.7			
12/25/24	6,534,159	2,426.4	24.4	27.0	7.53
12/28/24	6,543,982	2,944.9			
12/31/24	6,552,907	3,028.4			
End of 4th Qrt and Annual 2024					
01/04/25	6,562,388	2,822.9			
01/07/25	6,571,031	2,704.9	21.4	13.5	7.50
01/10/25	6,571,031	1,812.4			
01/13/25	6,581,315	2,103.0			
01/14/25			IMC Hauled 3,300 Gals Sludge from WWTP		
01/16/25	6,586,128	1,677.4			
01/19/25	6,592,281	2,361.1			
01/20/25			IMC Hauled 1,150 Gals from Grease Trap		
01/22/25	6,598,073	1,862.0			
01/25/25	6,604,459	2,036.8			
01/27/25	6,609,838	2,194.6	15.7	14.5	*5.67*
01/29/25	6,612,894	2,117.3	IMC Hauled 4,000 Gals Sludge from WWTP		
01/31/25			IMC Hauled 1,150 Gals from Grease Trap		
02/01/25	6,616,234	1,682.1			
02/05/25	6,621,917	1,342.1	9.3	<12.5	6.19
02/07/25	6,625,701	1,423.0			
02/10/25	6,631,380	1,682.9			
02/14/25	6,643,999	2,453.6			
02/17/25	6,651,775	2,607.4	17.9	15.0	*5.72*
02/20/25	6,657,439	2,605.9			
02/23/25	6,665,993	2,443.8			
02/26/25	6,671,791	2,224.0			
02/28/25	6,676,245	2,350.8	IMC Hauled 4,000 Gals Sludge from WWTP		
03/04/25	6,683,361	1,929.8			
03/04/25	6,683,361	1,928.3	24.2	19.5	6.24
03/07/25	6,691,219	2,139.1			
03/10/25	6,702,747	3,231.0			
03/13/25	6,709,874	2,945.9			
03/15/25	6,717,103	3,235.5			
03/18/25	6,725,702	2,869.4	11.2	<12.5	6.39
03/21/25	6,731,929	2,756.9			
03/25/25	6,739,120	2,201.7			
03/26/25			IMC Hauled 3,000 Gals Sludge from WWTP		
03/28/25	6,740,769	1,506.7			
03/30/25	6,743,292	1,262.6			
End of 1st Qrt 2025					

Italic indicates exceeds Permit but not reportable. Meter Recalibration indicated measurements were 1.6 times
Bold indicates outside permitted allowables and reportable.
* COD Converted to BOD (COD/1.8=BOD)
** Sample Not Received at Lab within Holding Time or at temperature
*** pH Not Taken due to Inoperable pH Meter

ATTACHMENT 7

WATER BALANCE SHEET & STORAGE CALCULATIONS

DK #218
19765 Highway 287
Harrold, TX
Wilbarger County

Water Balance and Storage Calculations

Pond Volume (Acre-Feet) =	19.2
Pond Surface Area (Acres) =	1.6
Flow to Pond (MGD) =	0.0047

Critical Conditions-

Month	Number of Days	Flow to Pond (Acre-Feet)	25-Year Lowest Net Evaporation Distributed By Month (Feet)	25-Year Lowest Net Evaporation Distributed By Month (Inches)	Evaporation From Pond (Acre-Feet)	Storage Requirement (Acre-Feet)
January	31	0.447	-0.017	-0.200	-0.027	0.474
February	28	0.404	-0.096	-1.150	-0.153	0.557
March	31	0.447	-0.130	-1.560	-0.208	0.655
April	30	0.433	-0.286	-3.430	-0.457	0.890
May	31	0.447	-0.158	-1.890	-0.252	0.699
June	30	0.433	-0.179	-2.150	-0.287	0.719
July	31	0.447	-0.084	-1.010	-0.135	0.582
August	31	0.447	-0.140	-1.680	-0.224	0.671
September	30	0.433	-0.222	-2.660	-0.355	0.787
October	31	0.447	-0.174	-2.090	-0.279	0.726
November	30	0.433	-0.340	-4.080	-0.544	0.977
December	31	0.447	-0.093	-1.110	-0.148	0.595

Total Storage Necessary (Acre-Feet) =	8.332
Pond Volume (Acre-Feet) =	19.2
Pond Storage Volume > Total Storage Necessary =	Adequate Storage

Average Conditions-

Month	Number of Days	Flow to Pond (Acre-Feet)	25-Year Average Monthly Net Evaporation (Feet)	25-Year Average Monthly Net Evaporation (Inches)	Evaporation from Pond (Acre-Feet)	Storage Requirements (Acre-Feet)
January	31	0.447	0.143	1.720	0.229	0.218
February	28	0.404	0.155	1.860	0.248	0.156
March	31	0.447	0.218	2.612	0.348	0.099
April	30	0.433	0.267	3.208	0.428	0.005
May	31	0.447	0.211	2.533	0.338	0.109
June	30	0.433	0.338	4.051	0.540	-0.108
July	31	0.447	0.587	7.038	0.938	-0.491
August	31	0.447	0.473	5.671	0.756	-0.309
September	30	0.433	0.321	3.850	0.513	-0.081
October	31	0.447	0.268	3.213	0.428	0.019
November	30	0.433	0.201	2.408	0.321	0.112
December	31	0.447	0.134	1.606	0.214	0.233

Total Storage Necessary (Acre-Feet) =	-0.039
Total Storage Necessary < 0 =	Adequate Storage

Water Balance and Storage Calculations Explanation

Critical Conditions-

Flow to pond =	(Effluent Flow (MGD)) * (# of Days) * (3.0684)
Evaporation From Pond=	(Pond Surface Acres) * (Evaporation Rate)
Evaporation Rate=	25-year lowest net evaporation distributed by month
Storage Requirements=	(Flow to Pond)-(Evaporation From Pond)
Total Storage Necessary=	Sum of storage requirement column

Average Conditions-

Flow to pond =	(Effluent Flow (MGD)) * (# of Days) * (3.0684)
Evaporation From Pond=	(Pond Surface Acres) * (Evaporation Rate)
Evaporation Rate=	25-year average monthly net evaporation
Storage Requirements=	(Flow to Pond)-(Evaporation From Pond)
Total Storage Necessary=	Sum of storage requirement column

ATTACHMENT 8

Pond Liner Certification

1.0 INTRODUCTION

1.1 Authorization

EE&G, Inc. (EE&G) has undertaken and completed a Pond Liner Certification Site Assessment for the evaporation pond associated with wastewater permit WQ0003123000 located at Southwest Convenience Store (SCS) 7-Eleven #57218, 19765 US Highway 287, Harrold, Wilbarger County, Texas. The pond liner certification was preformed in accordance with wastewater permit WQ0003123000 requirements, the Notice of Violation dated 6/9/21 and Exit Interview form dated 5/3/21 documented in TCEQ Investigation No.: 1722688 (05/03/2021). A copy of the Notice of Violation is included in Appendix A and a copy of the Exit Interview form is included in Appendix B.

1.2 Purpose of Evaluation

The purpose of this study was to determine the physical characteristics of the unmodified in-situ soils utilized as the pond liner during the construction of the permitted evaporation pond at the subject facility. Permitted municipal and industrial wastewater holding ponds using unmodified in-situ soil must meet the follow requirements detailed in Title 30 of the Texas Administrative Code (TAC) Chapter 217.203;

1. The coefficient of permeability must be less than 1×10^{-7} cm/s;
2. At least 30% of the liner material must pass through a 200-mesh sieve;
3. The liner material must have a liquid limit greater that 30;
4. The liner material must have a plasticity index of 15 or greater.

1.3 Scope of Investigation

To accomplish these tasks, the following scope of services was performed:

a. Conducted a review of 30 TAC 217.203 for rules and guidance regarding domestic and industrial wastewater ponds;

b. Drilled a series of four (4) borings along the North, East, South and West sides of the pond to depths of approximately 3' below the maximum depth of the pond;

c. Collected four (4) representative native soil samples from approximately 3.0 ft. below the maximum depth of the pond and four (4) representative native soil samples from within the sidewalls at approximate depths at or below the water level of the pond;

d. Prepared appropriate site plans detailing the site vicinity, test boring locations and geotechnical testing results;

e. Provided photographic documentation of the investigation activities;

f. Prepared and submitted this Pond Liner Certification Report to the TCEQ Region 3 office in Abilene, Texas detailing the results of the investigation.

2.0 PROPERTY DESCRIPTION

2.1 Wastewater System Description

The onsite 15,000 gpd max capacity waste water system is comprised of one (1) – 14,867-gallon compartmentalized aeration tank connected by a series of 12" booted crossovers to one (1) – 3,094-gallon clarification tank connected to the aeration tank by two (2) 12" 90-degree elbows. A Norweco LF3000 chlorinator connects the clarification tank to the 750-gallon chlorine contact tank. Treated wastewater is discharged from the chlorine contact tank through a 4" PVC outlet into the evaporation pond encompassing approximately 44,027 ft^2.

3.0 SUBSURFACE SITE INVESTIGATION

3.1 General

EE&G reviewed 30 TAC 217.203 guidelines for domestic and industrial wastewater impoundments (ponds) prior to conducting assessment activities. Additionally, EE&G discussed different sampling programs with the TCEQ Region 3 wastewater department to develop an adequate sampling plan for the wastewater pond.

3.2 Subsurface Soil Assessment

Subsurface conditions at the site were explored by drilling four (4) test borings in approximately the center or most accessible location of the North, East, South and West sidewalls of the wastewater pond. The height of the sidewalls were measured prior to assessment activities and found to be approximately 5.0 – 6.0 ft above the current static water level of the pond. At the time of the assessment, the maximum depth of the pond below the sidewall was estimated to be approximately 12.0 ft. Each boring was advanced to a predetermined depth of 15.0 ft below ground surface (bgs) into native, undisturbed soils approximately 3.0 ft below the bottom level of pond. A site plan depicting pond liner sample locations is included as Figure 1. Soil boring logs are included in Appendix C.

Soil samples were collected based upon the following criteria:

1) Beneath the static water level and above the bottom of the pond (sidewalls);
2) Bottom of the boring from 15.0 – 16.5 ft bgs (approximately 3.0 ft below the bottom level of the pond).

Soil samples were collected in individual shelby tubes to obtain undisturbed, representative soil samples. The shelby tubes were hydraulically advanced approximately 18 inches into the native soils before they were extracted from the borehole. The open ends of the shelby tubes were sealed to prevent moisture from escaping and secured inside the vehicle for transport. The boreholes were plugged with bentonite and replaced native soils.

Soil samples collected were submitted to Team Consultants, Inc. for geotechnical analyses to determine if native soils met the 30 TAC 217.203 requirements for wastewater pond liners. The following analysis and testing methods that were performed are as follows:

1) Unified Soil Classification System (ASTM D-2488)
2) Amount of Material in Soils Finer than No. 200 Sieve (ASTM D-1140)
3) Atterberg Limits ASTM D-4318 (Liquid Limit/Plasticity Index)
4) Permeability Test (EM 1110-2-1906)

3.3 Geotechnical Testing Results

A total of eight (8) soil samples [two (2) from each bore hole, one (1) side wall and one (1) bottom] were collected from test borings B-1, B-2, B-3 and B-4 at depths determined in the field.

Based on the geotechnical data obtained, all submitted soil samples exceed the pond liner requirements documented in 30 TAC 217.203. It appears that native, undisturbed soils used in the historic construction of the wastewater pond for wastewater permit WQ0003123000 are acceptable and certifiable for use as a pond liner.

Geotechnical testing results for each soil sample are included in Appendix D and photographs of the site and subsurface investigation operations are included in Appendix E.

4.0 Data Certification

4.1 Professional Engineer Certification

The undersigned Registered Professional Engineer is familiar with the requirements of Title 30 of the Texas Administrative Code (TAC), Chapter 217. The undersigned Registered Professional Engineer attests that the geotechnical data provided in this report meets and/or exceeds the requirements stated in 30 TAC 217.203 and that the tested soils are acceptable for use as a pond liner.

James J. Weisman, Jr.
Signature

59495
Professional Engineer Registration Number

James J. Weisman, Jr.
Name

Professional Engineer
Title

Weisman Engineering
Engineering Firm

F-67
Engineering Firm Registration Number

EE&G, Inc.
Company

10/11/2021
Date

STATE OF TEXAS
WEISMAN JR.
59495
LICENSED
PROFESSIONAL ENGINEER

TEAM Consultants, Inc.

Geotechnical, Environmental, Construction Materials Testing

October 5, 2021
TEAM Project No. 182058
Report No. 4

Environmental Engineering and Geotechnics, Inc.
1632 Southeast Parkway
Azle, TX 76020

Attn: Mr. Travis Williams

Re: Laboratory Soil Tests
SCS #218 Wastewater Pond Liner Certification

Dear Mr. Williams:

Submitted here is our report of laboratory testing services completed on 8 undisturbed soil samples received from Mr. Travis Williams on September 28, 2021 for the above referenced project. The laboratory test program requested by Mr. Williams was completed utilizing the following test methodologies:

Atterberg Limits	ASTM D-4318
Grain size Analysis	ASTM D-422
Classification of Soils	ASTM D-2487
Coefficient of Permeability	USACE EM1110-2-1906, Appendix VII

We appreciate the opportunity to be of assistance to you with this project. Should you have any questions, or if we may be of further assistance, please call the undersigned at (817) 467-5500.

Jason Young, GIT
Staff Geologist

4087 Shilling Way, Dallas, TX 75237 (214) 331-4395 Fax (214) 331-4458
3101 Pleasant Valley, Suite 101 Arlington, TX 76015 (817) 467-5500 Fax (817) 468-9920

SUMMARY OF LABORATORY TEST RESULTS

EE&G
SCS #218 Wastewater Pond Liner

Boring Number	Depth (ft)	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)		Amount of Material in Soils Finer than No. 200 Sieve (ASTM D-1140) (% Passing)	ATTERBERG LIMITS (ASTM D-4318) LIQUID LIMIT	ATTERBERG LIMITS (ASTM D-4318) PLASTICITY INDEX	PERMEABILITY TEST (EM 1110-2-1906) MOISTURE CONTENT (%)	PERMEABILITY TEST (EM 1110-2-1906) DRY DENSITY (pcf)	PERMEABILITY TEST (EM 1110-2-1906) FALLING HEAD PERMEABILITY K (cm/sec)
B-1	5-6.5	Reddish brown sandy lean clay	CL	62.9	44	27	10.1	122.0	3.89E-09
B-1	15-16.5	Reddish brown fat clay	CH	96.8	50	26	17.2	114.6	9.69E-09
B-2	5-6.5	Reddish brown lean clay with sand	CL	81.3	46	27	19.6	104.9	3.26E-09
B-2	15-16.5	Reddish brown lean clay	CL	96.7	41	18	14.1	122.0	3.99E-09
B-3	5-6.5	Reddish brown lean clay with sand	CL	78.3	44	26	10.0	108.4	5.49E-08
B-3	15-16.5	Reddish brown lean clay	CL	97.8	40	17	15.2	120.4	4.06E-09
B-4	6-7.5	Reddish brown lean clay with sand	CL	84.2	49	32	11.5	119.5	1.71E-09
B-4	15-16.5	Reddish brown lean clay	CL	95.5	42	19	14.5	116.7	1.32E-08

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601563778		RN 102349438

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:*

Southwest Convenience Stores LLC

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800189230	17526799733	752679733	N/A

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:

2210 West 2nd Street

City	Odessa	State	TX	ZIP	79763	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	scott.prall@delekus.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(432) 559-0112		( ) -

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.)*

DK #218

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	19765 US Highway 287 East							
	City	Harrold	**State**	TX	**ZIP**	76364	**ZIP + 4**	5416
24. County								

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

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	
Harrold			Tx	76364	

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

27. Latitude (N) In Decimal:	34.071072		**28. Longitude (W) In Decimal:**	-99.008339	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
5541		447190	

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

Fueling Station/Convenience Store

34. Mailing Address:	**2210 West 2nd Street**							
	City	**Odessa**	**State**	**TX**	**ZIP**	**79763**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(432) 559-112		( ) -

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
			46347	
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0003123000			

SECTION IV: Preparer Information

40. Name:	Greg Jackson		**41. Title:**	Project Manager
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(972) 383-0001		(972) 383-0005	gjackson@ee-g.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:	Southwest Convenience Stores LLC.	**Job Title:**	Senior Manager
Name *(In Print):*	Scott Prall	**Phone:**	(432) 559- **0112**
Signature:		**Date:**	5-29-25

Table of Contents

ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Southwest Convenience Stores, LLC

PERMIT NUMBER (If new, leave blank): WQ0003123000

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: 16742

Check/Money Order Amount: 315.00

Name Printed on Check: EE&G, Inc Operating Account

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 003123000

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

Expiration Date: December 1, 2025

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

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

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

Southwest Convenience Stores, LLC

(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: 601563778

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: Prall, Scott

Title: SR. Maintenance Manager Credential: Click to enter text.

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

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

N/A

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

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

CN: N/A

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: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Provide a brief description of the need for a co-permittee: N/A

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. N/A

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Jackson, Greg

Title: Project Manager Credential: N/A

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City, State, Zip Code: Azle, Texas, 76020

Phone No.: (972) 383-0001 E-mail Address: gjackson@ee-g.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: N/A Last Name, First Name: N/A

Title: Click to enter text. Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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: Auch, Norman

Title: Plant Operator Credential: WW0016286 WWC

Organization Name: Click to enter text.

Mailing Address: PO Box 984 City, State, Zip Code: Vernon, Texas, 76385

Phone No.: (940) 839-6962 E-mail Address: normanauch@yahoo.com

B. Prefix: Mr. Last Name, First Name: Jackson, Greg

Title: Project Manager Credential: WW0072707 WWD

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City, State, Zip Code: Azle, Texas, 76020

Phone No.: (972) 383-0001 E-mail Address: gjackson@ee-g.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: Prall, Scott

Title: Senior Manager Credential: Click to enter text.

Organization Name: Southwest Convenience Stores, LLC

Mailing Address: 2210 West 2nd Street City, State, Zip Code: Odessa, Texas, 79763

Phone No.: (432) 559-0112 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: Auch, Norman

Title: Plant Operator Credential: WW0016286 WWC

Organization Name: Click to enter text.

Mailing Address: PO Box 984 City, State, Zip Code: Vernon, Texas, 76385

Phone No.: (940) 839-6962 E-mail Address: normanauch@yahoo.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Jackson, Greg

Title: Project Manager Credential: WW0072707 WWD

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City, State, Zip Code: Azle, Texas, 76020

Phone No.: (972) 383-0001 E-mail Address: gjackson@ee-g.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Jackson, Greg

Title: Project Manager Credential: WW0072707 WWD

Organization Name: EE&G, Inc.

Mailing Address: 1632 Southeast Parkway City, State, Zip Code: Azle, Texas, 76020

Phone No.: (972) 383-0001 E-mail Address: gjackson@ee-g.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: Wilbarger County Courthouse

Location within the building: Office of County Clerk

Physical Address of Building: 1700 Wilbarger Street

City: Vernon County: Wilbarger

Contact (Last Name, First Name): Click to enter text.

Phone No.: (940) 552-5486 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 1

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102349438

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):

DK #218 Truck Stop

C. Owner of treatment facility: Southwest Convenience Stores, LLC

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

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

Prefix: Mr. Last Name, First Name: Prall, Scott

Title: Senior Manager Credential: N/A

Organization Name: Southwest Convenience Stores, LLC

Mailing Address: 2210 West 2nd Street City, State, Zip Code: Odessa, Texas, 79763

Phone No.: (432) 559-0112 E-mail Address: scott.prall@delekus.com

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

Attachment: N/A

E. Owner of effluent disposal site:

Prefix: Mr. Last Name, First Name: Prall, Scott

Title: Senior Manager Credential: N/A

Organization Name: Southwest Convenience Stores, LLC

Mailing Address: 2210 West 2nd Street City, State, Zip Code: Odessa, Texas, 79763

Phone No.: (432) 559-0112 E-mail Address: scott.prall@delekus.com

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

Attachment: N/A

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

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

N/A

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:

N/A

City nearest the outfall(s): N/A

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

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: N/A

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: N/A

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:

N/A

B. City nearest the disposal site: Harrold, Texas

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

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

The treated effluent from the WWTP is routed through PVC pipes into an evaporation pond adjacent to the east of the treatment plant.

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

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: N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: N/A

Amount past due: N/A

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: See Table of Contents

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0003123000

Applicant: Southwest Convenience Stores, LLC

Certification:

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

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

Signatory name (typed or printed): Scott Prall

Signatory title: Senior Manager

Signature: _____ Date: 5-29-25

(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this 29th day of May, 2025.

My commission expires on the 18th day of December, 2028.

Donna Millette

Notary Public

Ector

County, Texas

DONNA MILLETTE NOTARY PUBLIC STATE OF TEXAS ID # 616570-3 EXPIRES 12-18-2028

TECHNICAL REPORT 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

Retail motor fuel sales, convenience store and restaurant operations.

SIC Codes: 5541, 5411

NAICS Code: 447190

b. Describe all wastewater-generating processes at the facility.

Domestic wastewater generated from the Truckstop/ Convenience Store and restaurant services.

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
N/A	N/A	N/A

Attachment: N/A

d. Attach a facility map (drawn to scale) with the following information:

- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
- The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: Attachment 4

e. Is this a new permit application for an existing facility?

☐ Yes ☒ No

If **yes**, provide background discussion: N/A

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: Mid Continent insurance policy

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: N/A

Attachment: N/A

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

☐ Yes ☐ No ☒ N/A (renewal only)

h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ Yes ☐ No

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

If **no**, provide an approximate date of application submittal to the USACE: N/A

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

See Attachment 1

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: 3 & 7

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

☒ Yes ☐ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a – 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	E			
Associated Outfall Number	N/A			
Liner Type (C) (I) (S) or (A)	C			
Alt. Liner Attachment Reference	N			
Leak Detection System, Y/N	N			
Groundwater Monitoring Wells, Y/N	N			
Groundwater Monitoring Data Attachment	N			
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y			
Length (ft)	N/A			
Width (ft)	N/A			
Max Depth From Water Surface (ft), Not Including Freeboard	10			
Freeboard (ft)	2			
Surface Area (acres)	1.6			
Storage Capacity (gallons)	6.2M			
40 CFR Part 257, Subpart D, Y/N	N			
Date of Construction	08/18/2015			

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

Attachment: N/A

For TLAP applications: Items 3.c – 3.e are **not required**, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
E001	34°04'15"N	99°00'30"W

Outfall Location Description

Outfall No.	Location Description
E001	Location of final effluent deposition into evaporation pond.

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point
E001	N/A

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
	0.0047	0.0047	0.0047	0.0047	N/A

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
E001	N	Y	Siemens Doppler Ultrasonic

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
E001	N	N	Y	24	30	12

Outfall Wastestream Contributions

Outfall No. **E001**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Restaurant/Convenience Store Domestic Waste	0.0047	100

Outfall No. **N/A**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. **N/A**

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: Click to enter text.

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a. Indicate if the facility currently or proposes to:

☐ Yes ☒ No Use cooling towers that discharge blowdown or other wastestreams

☐ Yes ☒ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required.**

b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.

- Manufacturers Product Identification Number
- Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: N/A

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	N/A		
Boilers	N/A		

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 122.26(b)(14)*, commingled with any other wastestream?

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: N/A

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

☒ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.

☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.

☐ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.

☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☐ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Plant: IMC Waste	MSW #2229A
Hauler: IMC Waste Haulers	Reg #20639

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☐ Yes ☒ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: N/A

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: N/A

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** N/A

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: N/A

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

☐ Yes ☐ No

If **yes**, **Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)
N/A	N/A

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)
N/A	N/A

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☐ Yes ☒ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☐ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. N/A

3. Cooling water is/will be obtained from a reclaimed water source?

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: N/A

4. Cooling water is/will be obtained from an Independent Supplier

☐ Yes ☐ No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: N/A

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

☐ Yes ☐ No

If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f.**

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

☐ Yes ☐ No

If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

   ☐ Yes ☐ No

   If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I - New facility subject to 40 CFR Part 125, Subpart I

   ☐ Yes ☐ No

   If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

   ☐ Track I - AIF greater than 2 MGD, but less than 10 MGD
   - Attach information required by *40 CFR §§ 125.86(b)(2)-(4).*

   ☐ Track I - AIF greater than 10 MGD
   - Attach information required by *40 CFR § 125.86(b).*

   ☐ Track II
   - Attach information required by *40 CFR § 125.86(c).*

   Attachment: Click to enter text.

2. Phase II - Existing facility subject to 40 CFR Part 125, Subpart J

   ☐ Yes ☐ No

   If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III - New facility subject to 40 CFR Part 125, Subpart N

   ☐ Yes ☐ No

   If **yes**, check the box next to the compliance track selection and provide the requested information.

   ☐ Track I - Fixed facility
   - Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

   ☐ Track I - Not a fixed facility
   - Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

   ☐ Track II - Fixed facility
   - Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

   Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☐ Yes ☒ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

N/A

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

N/A

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

N/A

Item 14. Laboratory Accreditation (Instructions, Page 49)

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: Greg Jackson

Title: Project Manager

Signature: _____

Date: 5/21/2025

WORKSHEET 3.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT

This worksheet **is required** for all applications for a permit to disposal of wastewater by land application (i.e., TLAP)).

Item 1. Type of Disposal System (Instructions, Page 69)

Check the box next to the type of land disposal requested by this application:

- ☐ Irrigation
- ☒ Evaporation
- ☐ Evapotranspiration beds
- ☐ Drip irrigation system
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Surface application
- ☐ Other, specify: Click to enter text.

Item 2. Land Application Area (Instructions, Page 69)

Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)
N/A	N/A	N/A	N/A

Item 3. Annual Cropping Plan (Instructions, Page 69)

Attach the required cropping plan that includes each of the following:

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements
- Supplemental watering requirements
- Crop salt tolerances
- Justification for not removing existing vegetation to be irrigated

Attachment: N/A

Item 4. Well and Map Information (Instructions, Page 70)

a. Check each box to confirm the required information is shown and labeled on the attached USGS map:

☒ The exact boundaries of the land application area

☒ On-site buildings

☒ Waste-disposal or treatment facilities

☒ Effluent storage and tailwater control facilities

☐ Buffer zones

☐ All surface waters in the state onsite and within 500 feet of the property boundaries

☒ All water wells within ½-mile of the disposal site, wastewater ponds, or property boundaries

☐ All springs and seeps onsite and within 500 feet of the property boundaries

Attachment: Click to enter text.

b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

Well and Map Information Table

Well ID	Well Use	Producing? Y/N/U	Open, cased, capped, or plugged?	Proposed Best Management Practice
N/A	N/A	N/A	N/A	N/A

Attachment: N/A

c. Groundwater monitoring wells or lysimeters are/will be installed around the land application site or wastewater ponds.

☐ Yes ☒ No

If **yes**, provide the existing/proposed location of the monitoring wells or lysimeters on the site map attached for Item 4.a. Additionally, attach information on the depth of the wells or lysimeters, sampling schedule, and monitoring parameters for TCEQ review, possible modification, and approval.

Attachment: N/A

d. Attach a short groundwater technical report using *30 TAC § 309.20(a)(4)* as guidance.
Attachment:

Item 5. Soil Map and Soil Information (Instructions, Page 71)

Check each box to confirm that the following information is attached:

a. ☐ USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops.

b. ☐ Breakdown of acreage and percent of total acreage for each soil type.

c. ☐ Copies of laboratory soil analyses. **Attachment:** Click to enter text.

Item 6. Effluent Monitoring Data (Instructions, Page 72)

a. Completion of Table 14 **is required** for all **renewal** and **major amendment** applications. Complete the table with monitoring data for the previous two years for all parameters regulated in the current permit. An additional table has been provided with blank headers for parameters regulated in the current permit which are not listed in Table 14.

Table 14 for Outfall No.: E001 **Samples are (check one): ☐ Composite ☒ Grab**

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
See Attachment 8							

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)

b. Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

Additional Parameter Effluent Analysis

Date (mo/yr)							

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. **Attachment:** Click to enter text.

Item 7. Pollutant Analysis (Instructions, Page 72)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Complete Tables 15 and 16.

Table 15 for Outfall No.: E001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	**See Attachment 8**			
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 16 for Outfall No.: Click to enter text. **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

WORKSHEET 3.1

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION

This worksheet **is required** for all applications for a permit to disposal of wastewater by surface land application or evaporation.

Item 1. Edwards Aquifer (Instructions, Page 73)

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

☐ Yes ☒ No

If **no**, proceed to Item 2. If **yes**, complete Items 1.b **and** 1.c.

b. Check the box next to the subchapter applicable to the facility.

☐ 30 TAC Chapter 213, Subchapter A

☐ 30 TAC Chapter 213, Subchapter B

c. If *30 TAC Chapter 213, Subchapter A* applies, attach **either**: 1) a Geologic Assessment (if conducted in accordance with *30 TAC § 213.5*) **or** 2) a report that contains the following:

- A description of the surface geological units within the proposed land application site and wastewater pond area.
- The location and extent of any sensitive recharge features in the land application site and wastewater pond area
- A list of any proposed BMPs to protect the recharge features.

Attachment: Click to enter text.

Item 2. Surface Spray/Irrigation (Instructions, Page 73)

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): N/A

Design application rate (acre-ft/acre/yr): N/A

Design application frequency (hours/day): N/A

Design application frequency (days/week): N/A

Design total nitrogen loading rate (lbs nitrogen/acre/year): N/A

Average slope of the application area (percent): N/A

Maximum slope of the application area (percent): N/A

Irrigation efficiency (percent): N/A

Effluent conductivity (mmhos/cm): N/A

Soil conductivity (mmhos/cm): N/A

Curve number: N/A

Describe the application method and equipment: N/A

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** N/A

Item 3. Evaporation Ponds (Instructions, Page 74)

a. Daily average effluent flow into ponds: 1,620.30 (Daily Average for 2024) gallons per day

b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** 7

Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: N/A

Area of bed(s) (acres): N/A

Depth of bed(s) (feet): N/A

Void ratio of soil in the beds: N/A

Storage volume within the beds (include units): N/A

Description of any lining to protect groundwater: N/A

b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. **Attachment:** N/A

c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** N/A

Item 5. Overland Flow (Instructions, Page 74)

a. Provide the following information on the overland flow:

Area used for application (acres): N/A

Slopes for application area (percent): N/A

Design application rate (gpm/foot of slope width): N/A

Slope length (feet): N/A

Design BOD5 loading rate (lbs BOD5/acre/day): N/A

Design application frequency (hours/day): N/A

Design application frequency (days/week): N/A

b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212.* **Attachment:** Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SUBSURFACE IRRIGATION (NON-DRIP)

This worksheet **is required** for all applications for a permit to disposal of wastewater by subsurface land application.

☐ Check the box to confirm the Class V Injection Well Inventory/Authorization Form (Worksheet 9.0) has been submitted to the TCEQ UIC Permits Team as directed.

Item 1. Edwards Aquifer (Instructions, Page 75)

a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by TCEQ?

☐ Yes ☐ No

b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by TCEQ?

☐ Yes ☐ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 for a preapplication meeting.

Item 2. Subsurface Application (Instructions, Page 75)

a. Check the box next to the type of subsurface land disposal system requested:

☐ Conventional drainfield, beds, or trenches

☐ Low pressure dosing

☐ Other: Click to enter text.

b. Provide the following information on the irrigation operations:

Application area (acres): Click to enter text.

Area of drainfield (square feet): Click to enter text.

Application rate (gal/square ft/day): Click to enter text.

Depth to groundwater (feet): Click to enter text.

Area of trench (square feet): Click to enter text.

Dosing duration per area (hours): Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area (inches/day): Click to enter text.

Soil infiltration rate (inches/hour): Click to enter text.

Storage volume (gallons): Click to enter text.

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

Soil classification: Click to enter text.

c. Attach a separate engineering report using *30 TAC § 309.20, Subchapter C, Land Disposal of Sewage Effluent* as guidance, excluding items b(3)(A) and b(3)(B). Include a description of the schedule of dosing basin rotation. **Attachment:** Click to enter text.

ATTACHMENTS

ATTACHMENT 1

TREATMENT SYSTEM DESCRIPTION

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

Southwest Convenience Stores, LLC. (CN601563778) operates the wastewater treatment plant (RN102349438), an activated sludge package plant and associated evaporation pond. The facility is located at 19765 US Highway 287, 1 mile southeast of Harrold, Wilbarger County, Texas 76364.

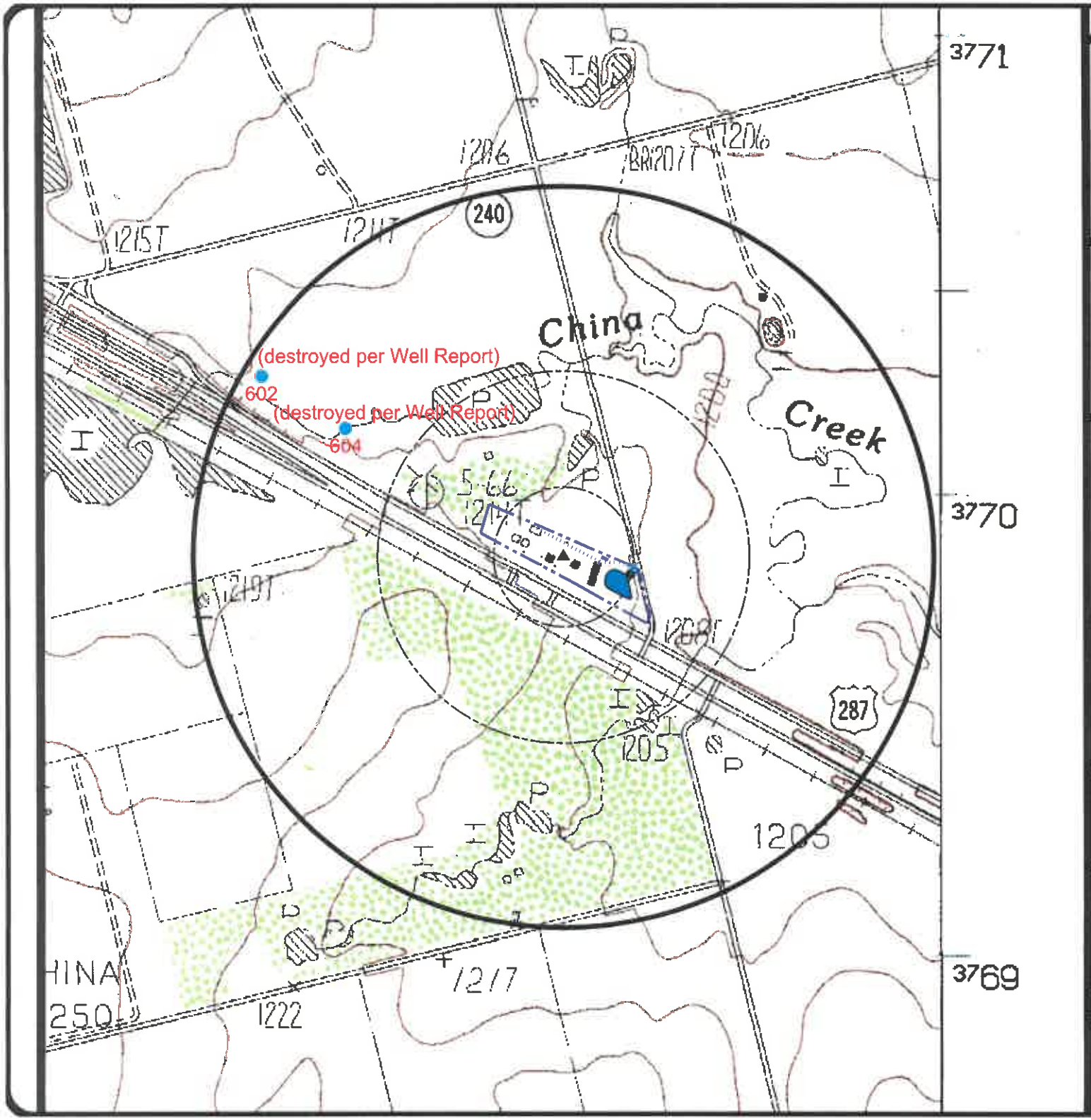
This application is for a renewal to dispose of a daily average flow not to exceed 4,700 gallons per day of treated domestic wastewater via an evaporation pond with an area of 1.6 acres and a storage capacity of 19.2 acre-feet. This permit will not authorize a discharge of pollutants into water of the state.

Activated sludge package treatment plant uses extended aeration modification of the activated sludge process. Organic waste mixed with waste water and aerated for approximately 24-hours prior to passing to clarifier. In the clarifier the sludge is allowed to settle for approximately 4-hours before returning to aeration zone. Returned sludge is mixed with more raw sewage to repeat process. Water separated from mixed liquor flows over a wier and into chlorination tank. Chlorine is metered into chlorination tank to disinfect the treated water prior to discharge to evaporation pond. The sludge holding tank is used to hold excess sludge that must be occasionally removed from the clarifier to maintain a suitable degree of treatment. A bar screen is used to remove large trash from the waste as it enters the plant. Blowers are used to provide compressed air for the process. Air diffusers are used to diffuse compressed air into the aeration zone. Sludge and scum collection is used to collect the sludge from the clarifier and floating scum on the waste surface of the clarifier and returned to the aeration zone or disposal. An air lift pump is used to transfer sludge and scum from the clarifier to the aeration zone and discharge excess sludge. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow for 24 hours of storage.

Treated effluent is gravity fed from the wastewater treatment plant to the evaporation pond for final disposal.

ATTACHMENT 2

USGS MAP



LEGEND

- Site Location
- 1/2-Mile Radius of Site Location
- Water Well Locations
- Property Boundary
- Evaporation Pond
- Wastewater Treatment Facility
- Stormwater Outfall
- Stormwater Discharge Route

QUADRANGLE LOCATION

HARROLD, TEXAS
N3400–W9907.5/7.5

0 1/8 1/4
Miles

0 500 1000
Feet

0 0.125 0.25
Kilometers

N

EE&G EE&G, Inc. (EE&G)

Southwest Convenience Stores, LLC

DK #218
19765 Highway 287 East
Harrold, Texas

Project No. 03.1002FT | Date: 5/21/2025

Attachment 2

USGS TOPOGRAPHIC MAP/WATER WELL MAP

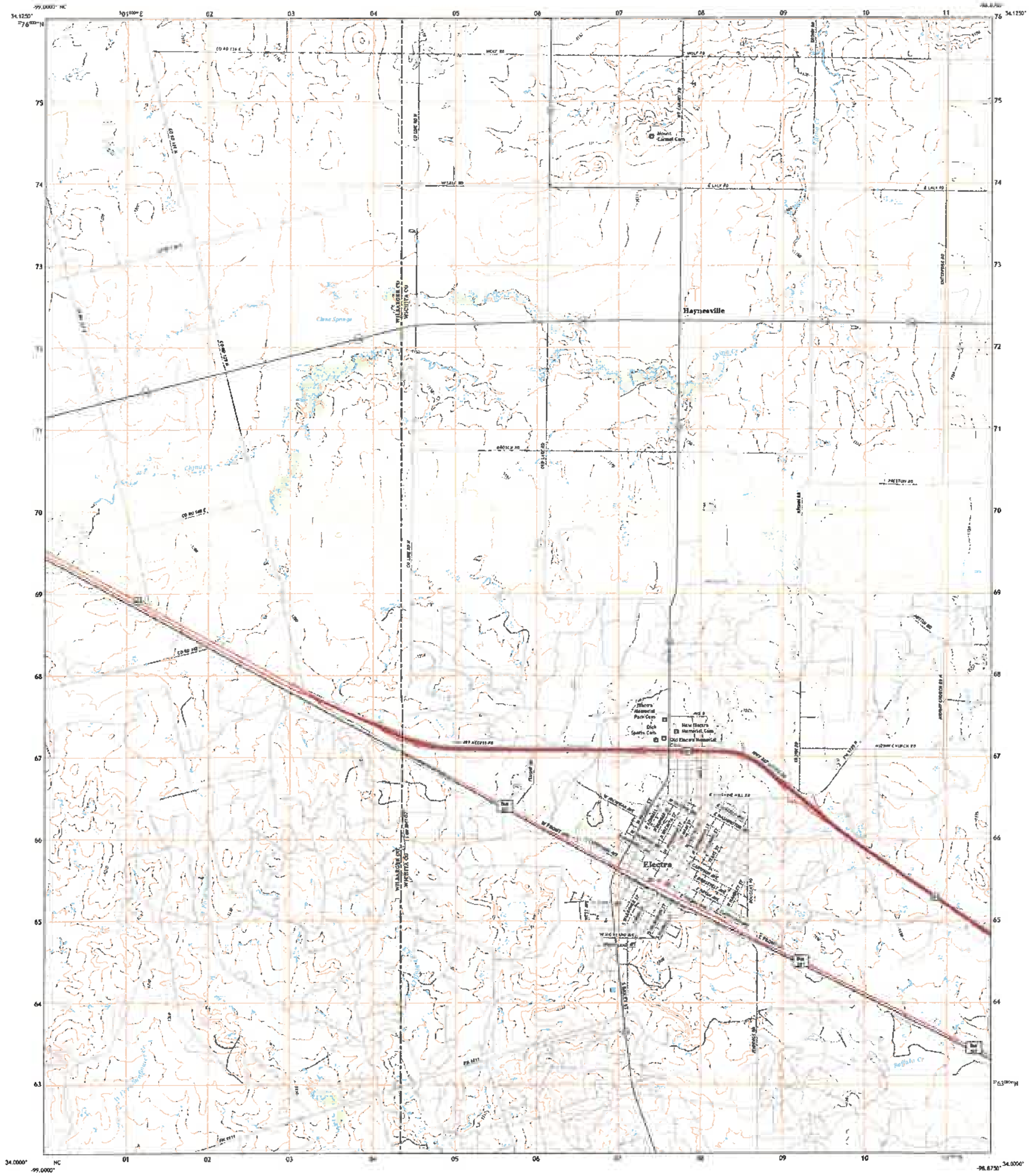
Scale: 1" = 1,000'

USGS
science for a changing world

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

The National Map
US Topo

ELECTRA 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 14S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery .... NAIP, September 2016 - November 2016
Roads .... U.S. Census Bureau, 2015 - 2018
Names .... GNIS, 1979 - 2021
Hydrography .... National Hydrography Dataset, 2003 - 2018
Contours .... National Elevation Dataset, 2010 - 2019
Boundaries .... Multiple sources; see metadata file 2019 - 2021
Wetlands .... FWS National Wetlands Inventory Not Available

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

KILOMETERS
METERS
MILES
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.

TEXAS
QUADRANGLE LOCATION

1 Davidson
2 Cowboy Springs
3 Auger Creek
4 Harrold
5 Sunshine Hill
6 Lake Electra
7 Beaver Creek
8 Fowlkes

ADJOINING QUADRANGLES

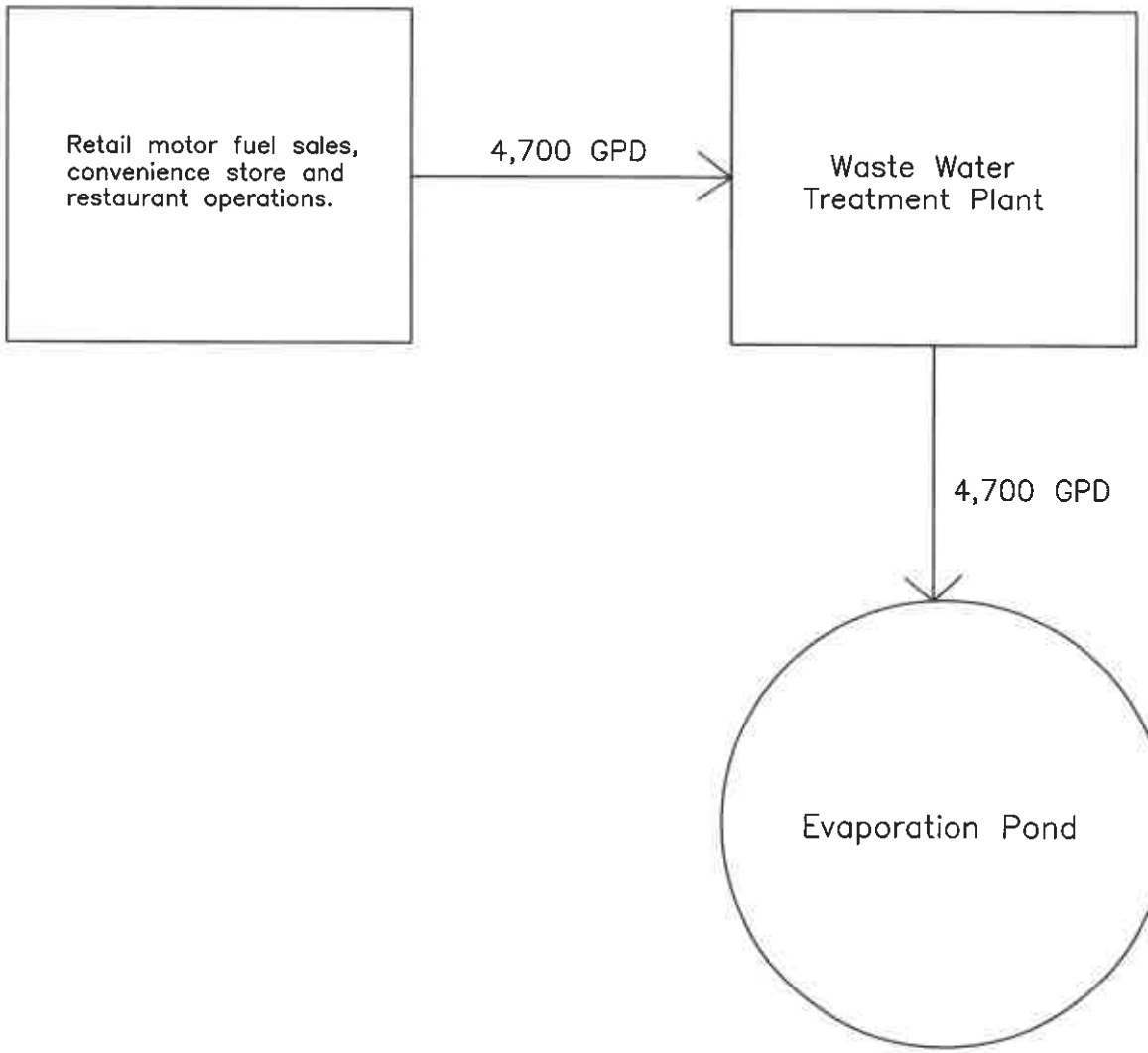
ROAD CLASSIFICATION

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

ELECTRA, TX
2022

ATTACHMENT 3

FLOW DIAGRAM



EE&G

EE&G, Inc. (EE&G)

Southwest Convenience Stores, LLC

Flow Diagram

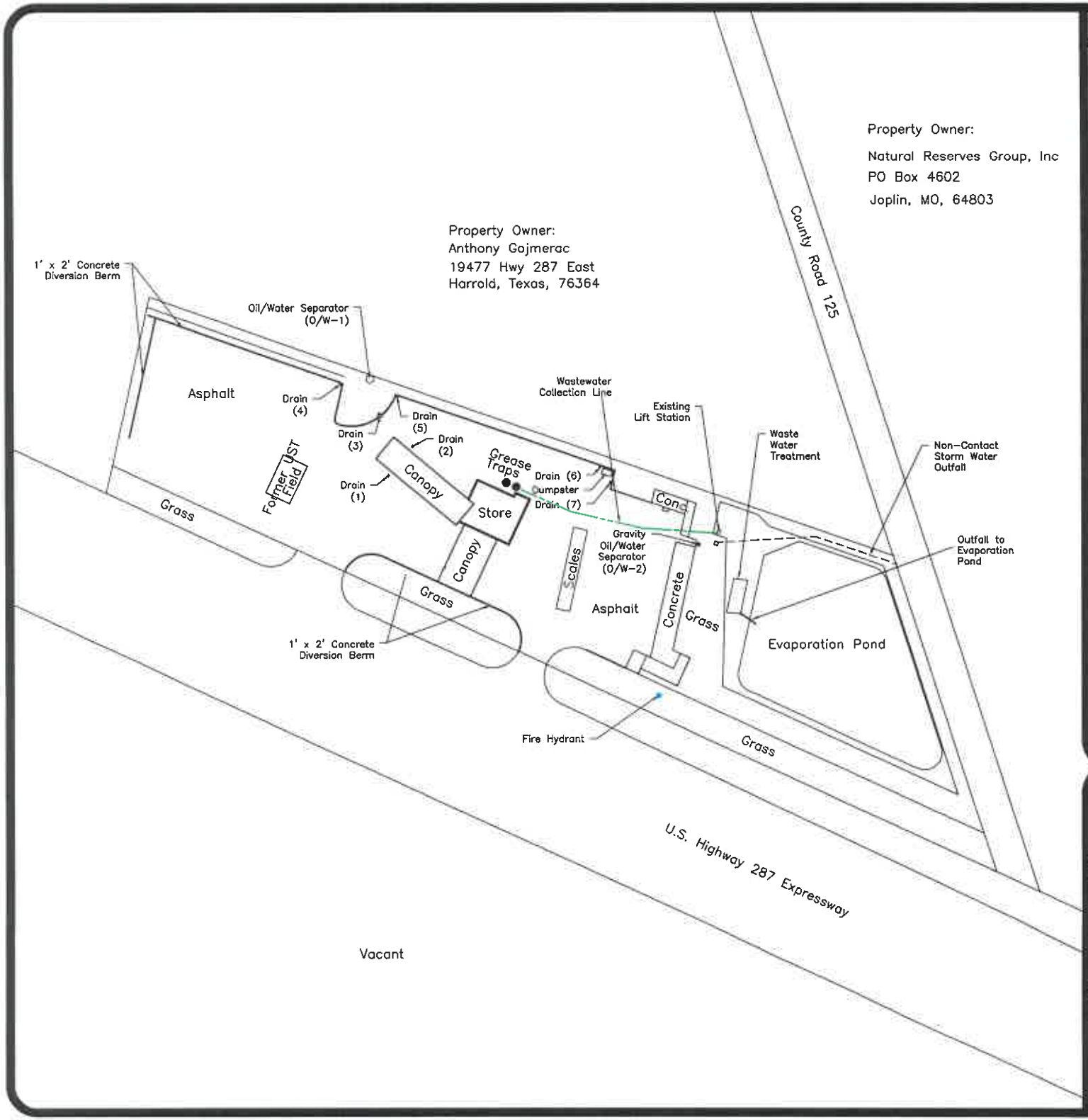
DK #218
19765 Highway 287 East
Harrold, Texas

Project No. 03.1002FT

Date: 5/21/2025

ATTACHMENT 4

SITE PLAN


Property Owner:
Natural Reserves Group, Inc
PO Box 4602
Joplin, MO, 64803
Property Owner:
Anthony Gajmerac
19477 Hwy 287 East
Harrold, Texas, 76364
County Road 125
1' x 2' Concrete Diversion Berm
Oil/Water Separator (O/W-1)
Asphalt
Drain (4)
Drain (3)
Drain (5)
Drain (2)
Drain (1)
Former UST Field
Canopy
Grease Traps
Store
Drain (6)
Dumpster
Drain (7)
Wastewater Collection Line
Existing Lift Station
Waste Water Treatment
Non-Contact Storm Water Outfall
Outfall to Evaporation Pond
Gravity Oil/Water Separator (O/W-2)
Canopy
Scales
Asphalt
Concrete
Grass
Evaporation Pond
1' x 2' Concrete Diversion Berm
Fire Hydrant
U.S. Highway 287 Expressway
Vacant
LEGEND
N
0" 1/2" 1"
0' 100' 200'
EE&G
EE&G, Inc. (EE&G)
Southwest Convenience Stores, LLC
DK #218
19765 Highway 287 East
Harrold, Texas
Project No. 03.1002FT
Date: 5/21/2025
Attachment 4
SITE PLAN
With Landowner Information
Scale: 1" = 200'

ATTACHMENT 5

PHOTOGRAPHS

Wastewater Package Plant
View to the North

View of Waste Water Outfall to Southeast

Evaporation Pond Water Level
View to the East

View of Lift Station to Northwest

Photo Showing Flowmeter Display

EE&G, Inc.

Waste Water Permit Renewal
Photos Taken 04/17/2025
DK #218
19765 Hwy 287 East
Harrold, Wilbarger County, Texas

Project # 03.1002FT | Date: 05/21/2025

Site
Photographs

ATTACHMENT 6

LAB ANALYTICAL DATA

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
04/11/23	5,541,760	1,490.9	8.7	<12.5	7.20
04/12/23			IMC Hauled 1,150 Gals from Grease Trap		
04/14/23	5,545,168	1,595.9			
04/17/23	5,549,236	1,421.6			
04/20/23	5,552,799	1,226.6			
04/23/23	5,556,661	1,277.0			
04/24/23			IMC Hauled 1,100 Gals from Grease Trap		
04/25/23	5,559,374	1,267.3	7.0	<12.5	6.99
04/28/23	5,562,646	1,230.9			
04/30/23	5,566,144	1,354.7			
05/03/23	5,569,669	1,286.9			
05/06/23	5,574,606	1,495.0			
05/09/23	5,578,115	1,330.1	***174.0***	*67.8*	7.47
05/09/23			IMC Hauled 1,150 Gals from Grease Trap		
05/11/23	5,579,679	1,251.3			
05/15/23	5,585,820	1,246.0			
05/19/23	5,590,296	1,218.1			
05/23/23	5,595,223	1,295.3	IMC Hauled 1,150 Gals from Grease Trap		
05/23/23			IMC Hauled 4,959 Gals Sludge from WWTP		
05/26/23	5,596,681	987.4			
05/29/23	5,603,321	1,302.5	15.6	20.0	7.65
06/01/23	5,606,805	1,286.9			
06/03/23	5,609,826	1,643.1			
06/05/23	5,612,972	1,378.7	15.8	18.0	7.57
06/07/23	5,615,392	1,431.2	IMC Hauled 1,150 Gals from Grease Trap		
06/10/23	5,619,554	1,389.7			
06/13/23	5,623,733	1,345.1	6.7	15.0	7.72
06/15/23	5,626,844	1,431.5			
06/18/23	5,629,869	1,289.4			
06/19/23			IMC Hauled 1,150 Gals from Grease Trap		
06/21/23	5,634,978	1,405.6			
06/25/23	5,642,833	1,598.9			
06/27/23	5,645,199	1,703.3			
06/30/23	5,649,183	1,578.3	IMC Hauled 3,300 Gals Sludge from WWTP		
End of 2nd Qtr 2023					
07/02/23	5,652,393	1,365.7			
07/05/23	5,655,741	1,317.8	36.6	29.5	7.69
07/08/23	5,660,499	1,414.5			
07/11/23	5,664,874	1,426.5			
07/14/23	5,668,826	1,369.4			
07/17/23	5,675,218	1,623.1			
07/19/23	5,677,258	1,523.5	IMC Hauled 3,200 Gals Sludge from WWTP		
07/22/23	5,680,392	1,410.7			
07/25/23	5,684,744	1,447.1	23.4	18.5	7.76
07/26/23			IMC Hauled 1,150 Gals from Grease Trap		
07/27/23	5,687,279	1,206.1			
07/28/23			IMC Hauled 3,000 Gals Sludge from WWTP		
07/29/23	5,690,151	1,289.3			
08/01/23	5,693,863	1,347.1	24.1	32.1	7.76
08/04/23	5,697,595	1,285.1			
08/07/23	5,703,213	1,448.5			
08/09/23	5,708,928	1,707.0	17.2	37.1	7.63
08/10/23			IMC Hauled 1,150 Gals from Grease Trap		

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
08/12/23	5,712,504	1,694.6			
08/15/23	5,716,642	1,731.5			
08/18/23	5,722,390	1,743.4			
08/21/23	5,729,544	1,718.0			
08/23/23			IMC Hauled 1,150 Gals from Grease Trap		
08/25/23	5,739,304	2,061.5	IMC Hauled 5,926 Gals Sludge from WWTP		
08/27/23	5,740,843	2,016.8			
08/29/23	5,744,887	2,045.2			
08/31/23	5,748,560	1,901.6			
09/02/23	5,755,145	1,980.1			
09/05/23	5,764,003	2,573.3	2.3	<12.5	7.71
09/06/23	5,765,653	2,595.8	IMC Hauled 1,150 Gals from Grease Trap		
09/10/23	5,775,153	2,659.3			
09/13/23	5,783,988	2,622.1			
09/16/23	5,791,863	2,532.7			
09/18/23	5,793,576	2,326.9			
09/21/23	5,795,984	1,893.7	5.5	<12.5	7.14
09/24/23	5,799,714	1,429.6			
09/25/23			IMC Hauled 1,150 Gals from Grease Trap		
09/27/23	5,803,075	1,019.3			
09/29/23			IMC Hauled 3,805 Gals Sludge from WWTP		
09/30/23	5,805,405	985.8			
End of 3rd Qrt 2023					
10/04/23	5,808,814	986.9	14.4	<12.5	6.88
10/07/23	5,813,011	1,022.8			
10/10/23			IMC Hauled 1,150 Gals from Grease Trap		
10/10/23	5,815,860	983.5			
10/12/23	5,817,565	1,013.3	12.0	<12.5	7.01
10/14/23	5,820,559	1,174.5			
10/16/23	5,823,102	1,121.2			
10/18/23	5,825,736	1,234.5			
10/21/23	5,829,445	1,320.0			
10/24/23			IMC Hauled 1,150 Gals from Grease Trap		
10/25/23	5,834,626	1,278.8			
10/27/23	5,837,723	1,329.2			
10/30/23	5,842,675	1,411.6	IMC Hauled 6,000 Gals Sludge from WWTP		
10/31/23	5,842,703	1,325.8			
11/03/23	5,844,207	1,064.6	IMC Hauled 1,150 Gals from Grease Trap		
11/06/23	5,847,404	968.1	10.1	<12.5	5.94
11/08/23	5,849,207	725.8			
11/10/23	5,851,520	881.7			
11/13/23	5,858,201	1,399.4			
11/15/23	5,862,332	1,658.7	12.7	<12.5	6.07
11/17/23	5,867,298	2,010.1	IMC Hauled 1,150 Gals from Grease Trap		
11/20/23	5,877,455	2,593.5			
11/23/23	5,884,102	2,590.1			
11/26/23	5,891,850	2,683.5			
11/28/23	5,895,604	2,573.3			
11/29/23	5,897,035	2,175.6	IMC Hauled 3,000 Gals Sludge from WWTP		
12/01/23	5,898,098	1,749.5	IMC Hauled 1,150 Gals from Grease Trap		
12/05/23	5,904,831	1,442.3	<6.0	<12.5	6.55
12/06/23	5,905,610	1,250.8			
12/09/23	5,911,048	1,401.3			
12/12/23	5,916,007	1,628.1			

SCS
Southwest Convenience Stores, Inc.

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

EE&G

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD $_{(5\text{-day})}$	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
12/15/23	5,924,555	1,972.4	IMC Hauled 1,150 Gals from Grease Trap		
12/19/23	5,929,275	1,820.4			
12/20/23	5,931,080	1,821.1	17.6	<12.5	6.80
12/23/23	5,940,800	2,253.9			
12/26/23	5,949,348	2,253.9			
12/27/23			IMC Hauled 3,000 Gals Sludge from WWTP		
12/28/23	5,952,144	2,541.0			
12/31/23	5,958,629	2,504.5			
End of 4th Qrt and Annual 2023					
01/03/24	5,964,751	1,925.4	3.85	<12.5	7.15
01/04/24			IMC Hauled 1,150 Gals from Grease Trap		
01/06/24	5,968,651	1,834.1			
01/09/24	5,972,741	1,716.4			
01/11/24	5,974,826	1,259.4			
01/13/24	5,978,156	1,357.9			
01/16/24	5,984,348	1,658.1			
01/17/24			IMC Hauled 1,150 Gals from Grease Trap		
01/18/24	5,985,689	1,551.9	IMC Hauled 6,000 Gals Sludge from WWTP		
01/20/24	5,985,706	1,078.6			
01/22/24	5,987,576	538.0			
01/24/24			IMC Hauled 3,000 Gals Sludge from WWTP		
01/25/24	5,990,005	616.6			
01/27/24	5,993,239	1,076.1			
01/29/24	5,995,835	1,179.9	68.4	56.0	5.97
02/01/24	5,998,931	1,275.1			
02/04/24	6,004,453	1,401.8			
02/06/24	6,007,329	1,436.8			
02/09/24	6,011,174	1,530.4	IMC Hauled 3,700 Gals Sludge from WWTP		
02/10/24	6,011,181	1,121.3	IMC Hauled 1,150 Gals from Grease Trap		
02/13/24	6,015,180	1,121.6	36.4	17.0	6.53
02/16/24	6,019,212	1,148.3	IMC Hauled 1,150 Gals from Grease Trap		
02/19/24	6,025,282	1,566.8	24.3	13.5	6.68
02/21/24	6,027,719	1,567.4			
02/24/24	6,032,317	1,638.1			
02/27/24	6,036,088	1,350.8			
02/28/24	6,037,343	1,374.9	IMC Hauled 3,500 Gals Sludge from WWTP		
03/01/24	6,039,998	1,280.2			
03/03/24	6,041,992	1,180.8			
03/05/24	6,044,561	1,203.0	7.97	<12.5	6.33
03/06/24	6,046,197	1,239.8			
03/09/24	6,054,572	2,096.7			
03/10/24	6,058,890	2,865.8			
03/12/24			IMC Hauled 1,150 Gals from Grease Trap		
03/13/24	6,064,690	2,641.9	9.89	<12.5	7.43
03/17/24	6,074,475	2,487.9			
03/18/24	6,076,184	2,161.8			
03/21/24	6,080,499	1,976.1			
03/23/24	6,084,607	1,688.7			
03/26/24	6,089,824	1,705.0			
03/27/24	6,091,022	1,753.8			
03/28/24			IMC Hauled 1,150 Gals from Grease Trap		
03/28/24			IMC Hauled 3,500 Gals from Grease Trap		
03/30/24	6,094,314	1,386.7			
End of 1st Qrt 2024					

SCS
Southwest Compliance Svcs., Inc.

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

EE&G

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
04/02/24	6,098,838	1,287.7	18.9	18.0	7.13
04/06/24	6,104,124	1,310.2			
04/09/24	6,110,688	1,637.4			
04/11/24	6,114,641	1,755.9			
04/14/24	6,119,193	1,883.6			
04/16/24	6,122,019	1,618.7	21.3	27.5	7.23
04/16/24			IMC Hauled 1,150 Gals from Grease Trap		
04/19/24	6,126,120	1,434.9			
04/22/24	6,131,531	1,542.3			
04/24/24			IMC Hauled 4,000 Gals Sludge from WWTP		
04/26/24	6,136,057	1,403.8			
04/29/24	6,141,365	1,524.5			
05/01/24	6,144,636	1,456.1			
05/03/24	6,148,716	1,808.4			
05/06/24	6,154,404	1,862.7	3.82	12.5	7.42
05/09/24	6,157,792	1,644.5			
05/13/24	6,164,160	1,544.4			
05/15/24	6,167,075	1,407.9			
05/18/24	6,171,718	1,547.3			
05/21/24	6,176,952	1,599.0	28.3	23.0	7.51
05/24/24	6,182,741	1,740.7			
05/28/24	6,190,136	1,841.8			
05/29/24	6,192,021	1,883.6	IMC Hauled 6,000 Gals Sludge from WWTP		
06/01/24	6,194,507	1,470.8			
06/03/24			IMC Hauled 1,150 Gals from Grease Trap		
06/04/24	6,200,354	1,459.7	34.8	31.5	7.66
06/06/24	6,202,673	1,331.5			
06/08/24	6,206,146	1,662.7			
06/10/24	6,208,579	1,370.8			
06/13/24	6,214,906	1,747.6			
06/14/24	6,215,831	1,614.2			
06/17/24	6,223,704	2,160.7	31.8	28.5	***No pH Taken
06/20/24	6,229,324	2,059.7			
06/24/24	6,238,950	2,311.9			
06/26/24			IMC Hauled 3,000 Gals Sludge from WWTP		
06/28/24	6,246,474	2,070.0			
End of 2nd Qrt 2024					
07/01/24	6,255,243	2,356.3	34.2	37.5	***No pH Taken
07/04/24	6,260,738	2,178.8			
07/07/24	6,268,718	2,471.6			
07/09/24	6,272,065	2,102.8			
07/12/24			IMC Hauled 1,150 Gals from Grease Trap		
07/13/24	6,279,890	2,128.0			
07/17/24	6,289,789	2,107.1			
07/21/24	6,289,789	1,477.0			
07/23/24	6,300,605	2,071.5			
07/27/24	6,306,879	1,709.0			7.75
07/29/24	6,310,982	2,649.1	25.2	**110.0**	7.80
07/31/24	6,313,586	1,622.6	IMC Hauled 3,000 Gals Sludge from WWTP		
08/03/24	6,319,902	1,860.4			
08/06/24	6,325,879	1,862.1			
08/09/24	6,328,916	1,703.3			
08/12/24	6,334,009	1,567.4	20.2	46.5	7.82
08/13/24			IMC Hauled 1,150 Gals from Grease Trap		

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD (5-day)	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
08/15/24	6,337,087	1,245.3			
08/18/24	6,340,186	1,252.2			
08/20/24	6,342,067	1,007.3			
08/21/24	6,342,975	981.3	27.9	77.0	7.74
08/26/24	6,348,401	1,026.9			
08/28/24	6,350,199	1,016.5	IMC Hauled 6,000 Gals Sludge from WWTP		
08/31/24	6,350,994	801.9			
09/03/24	6,356,637	1,029.5	23.8	12.5	7.89
09/05/24	6,358,855	1,082.0			
09/06/24	6,360,439	1,574.2			
09/08/24	6,362,990	1,270.6			
09/11/24	6,366,000	1,190.8			
09/14/24	6,369,925	1,185.8			
09/17/24	6,373,818	1,203.1	15.8	31.0	7.72
09/18/24	6,374,541	1,220.1			
09/21/24	6,379,080	1,307.9			
09/24/24	6,384,353	1,505.0			
09/25/24			IMC Hauled 8,700 Gals Sludge from WWTP		
09/27/24	6,387,374	1,425.9			
09/30/24	6,391,547	1,385.2			
End of 3rd Qrt 2024					
10/02/24	6,393,798	1,180.6			
10/03/24			IMC Hauled 1,150 Gals from Grease Trap		
10/05/24	6,397,841	1,308.4			
10/07/24	6,400,514	1,281.0	8.9	24.0	7.58
10/09/24	6,402,649	1,264.4			
10/12/24	6,407,403	1,366.0			
10/15/24	6,411,560	1,380.8			
10/17/24	6,413,422	1,346.6	IMC Hauled 6,000 Gals Sludge from WWTP		
10/20/24	6,414,892	936.1			
10/21/24	6,416,650	848.3	IMC Hauled 1,150 Gals from Grease Trap		
10/23/24	6,418,467	840.8	32.0	19.5	7.76
10/25/24	6,420,130	1,047.6			
10/28/24	6,424,731	1,154.4			
10/30/24			IMC Hauled 3,000 Gals Sludge from WWTP		
10/31/24	6,426,753	1,035.8			
11/01/24	6,428,065	1,133.6			
11/04/24	6,433,758	1,289.6			
11/06/24	6,436,634	1,646.8			
11/07/24	6,437,747	1,613.7	**176.0**	**134.0**	7.74
11/11/24	6,444,687	1,561.3			
11/13/24	6,447,523	1,555.6			
11/16/24	6,452,267	1,613.3			
11/19/24	6,457,293	1,575.8	IMC Hauled 1,150 Gals from Grease Trap		
11/19/24			IMC Hauled 6,000 Gals Sludge from WWTP		
11/21/24	6,457,293	1,221.3			
11/23/24	6,463,857	1,655.7			
11/25/24	6,468,194	1,816.8	**184.0**	**104.0**	7.66
11/28/24	6,476,046	2,679.0			
12/01/24	6,483,976	2,514.9			
12/03/24	6,488,702	2,563.5			
12/06/24	6,493,537	2,186.4			
12/09/24	6,499,753	1,972.1	13.2	27.5	7.57
12/12/24	6,504,704	1,778.0			

SCS
Southwest Convenience Stores, Inc

Harrold Wastewater Plant Effluent Analytical Results
All Water Disposed via Evaporation Pond

EE&G

Date	Flow Meter Reading	Calc. Avg Daily Flow (Gallons)	BOD $_{(5\text{-day})}$	TSS (mg/L)	pH
Permit Limits		4,700/Day	65 mg/L	65 mg/L	6.0-9.0
Reportable Limits		***6,580/Day***	***91 mg/L***	***91 mg/L***	***<3.6 or >12.6***
12/15/24	6,509,895	1,817.6			
12/18/24	6,514,533	1,642.2	IMC Hauled 3,300 Gals Sludge from WWTP		
12/22/24	6,525,651	2,094.7			
12/25/24	6,534,159	2,426.4	24.4	27.0	7.53
12/28/24	6,543,982	2,944.9			
12/31/24	6,552,907	3,028.4			
End of 4th Qrt and Annual 2024					
01/04/25	6,562,388	2,822.9			
01/07/25	6,571,031	2,704.9	21.4	13.5	7.50
01/10/25	6,571,031	1,812.4			
01/13/25	6,581,315	2,103.0			
01/14/25			IMC Hauled 3,300 Gals Sludge from WWTP		
01/16/25	6,586,128	1,677.4			
01/19/25	6,592,281	2,361.1			
01/20/25			IMC Hauled 1,150 Gals from Grease Trap		
01/22/25	6,598,073	1,862.0			
01/25/25	6,604,459	2,036.8			
01/27/25	6,609,838	2,194.6	15.7	14.5	*5.67*
01/29/25	6,612,894	2,117.3	IMC Hauled 4,000 Gals Sludge from WWTP		
01/31/25			IMC Hauled 1,150 Gals from Grease Trap		
02/01/25	6,616,234	1,682.1			
02/05/25	6,621,917	1,342.1	9.3	<12.5	6.19
02/07/25	6,625,701	1,423.0			
02/10/25	6,631,380	1,682.9			
02/14/25	6,643,999	2,453.6			
02/17/25	6,651,775	2,607.4	17.9	15.0	*5.72*
02/20/25	6,657,439	2,605.9			
02/23/25	6,665,993	2,443.8			
02/26/25	6,671,791	2,224.0			
02/28/25	6,676,245	2,350.8	IMC Hauled 4,000 Gals Sludge from WWTP		
03/04/25	6,683,361	1,929.8			
03/04/25	6,683,361	1,928.3	24.2	19.5	6.24
03/07/25	6,691,219	2,139.1			
03/10/25	6,702,747	3,231.0			
03/13/25	6,709,874	2,945.9			
03/15/25	6,717,103	3,235.5			
03/18/25	6,725,702	2,869.4	11.2	<12.5	6.39
03/21/25	6,731,929	2,756.9			
03/25/25	6,739,120	2,201.7			
03/26/25			IMC Hauled 3,000 Gals Sludge from WWTP		
03/28/25	6,740,769	1,506.7			
03/30/25	6,743,292	1,262.6			
End of 1st Qrt 2025					

Italic indicates exceeds Permit but not reportable. Meter Recalibration indicated measurements were 1.6 times

Bold indicates outside permitted allowables and reportable.

* COD Converted to BOD (COD/1.8=BOD)

** Sample Not Received at Lab within Holding Time or at temperature

*** pH Not Taken due to Inoperable pH Meter

ATTACHMENT 7

WATER BALANCE SHEET & STORAGE CALCULATIONS

Water Balance and Storage Calculations

DK #218
19765 Highway 287
Harrold, TX
Wilbarger County

Pond Volume (Acre-Feet) =	19.2
Pond Surface Area (Acres) =	1.6
Flow to Pond (MGD) =	0.0047

Critical Conditions-

Month	Number of Days	Flow to Pond (Acre-Feet)	25-Year Lowest Net Evaporation Distributed By Month (Feet)	25-Year Lowest Net Evaporation Distributed By Month (Inches)	Evaporation From Pond (Acre-Feet)	Storage Requirement (Acre-Feet)
January	31	0.447	-0.017	-0.200	-0.027	0.474
February	28	0.404	-0.096	-1.150	-0.153	0.557
March	31	0.447	-0.130	-1.560	-0.208	0.655
April	30	0.433	-0.286	-3.430	-0.457	0.890
May	31	0.447	-0.158	-1.890	-0.252	0.699
June	30	0.433	-0.179	-2.150	-0.287	0.719
July	31	0.447	-0.084	-1.010	-0.135	0.582
August	31	0.447	-0.140	-1.680	-0.224	0.671
September	30	0.433	-0.222	-2.660	-0.355	0.787
October	31	0.447	-0.174	-2.090	-0.279	0.726
November	30	0.433	-0.340	-4.080	-0.544	0.977
December	31	0.447	-0.093	-1.110	-0.148	0.595

Total Storage Necessary (Acre-Feet) =	8.332
Pond Volume (Acre-Feet) =	19.2
Pond Storage Volume > Total Storage Necessary =	Adequate Storage

Average Conditions-

Month	Number of Days	Flow to Pond (Acre-Feet)	25-Year Average Monthly Net Evaporation (Feet)	25-Year Average Monthly Net Evaporation (Inches)	Evaporation from Pond (Acre-Feet)	Storage Requirements (Acre-Feet)
January	31	0.447	0.143	1.720	0.229	0.218
February	28	0.404	0.155	1.860	0.248	0.156
March	31	0.447	0.218	2.612	0.348	0.099
April	30	0.433	0.267	3.208	0.428	0.005
May	31	0.447	0.211	2.533	0.338	0.109
June	30	0.433	0.338	4.051	0.540	-0.108
July	31	0.447	0.587	7.038	0.938	-0.491
August	31	0.447	0.473	5.671	0.756	-0.309
September	30	0.433	0.321	3.850	0.513	-0.081
October	31	0.447	0.268	3.213	0.428	0.019
November	30	0.433	0.201	2.408	0.321	0.112
December	31	0.447	0.134	1.606	0.214	0.233

Total Storage Necessary (Acre-Feet) =	-0.039
Total Storage Necessary < 0 =	Adequate Storage

Water Balance and Storage Calculations Explanation

Critical Conditions-

Flow to pond =	(Effluent Flow (MGD)) * (# of Days) * (3.0684)
Evaporation From Pond=	(Pond Surface Acres) * (Evaporation Rate)
Evaporation Rate=	25-year lowest net evaporation distributed by month
Storage Requirements=	(Flow to Pond)-(Evaporation From Pond)
Total Storage Necessary=	Sum of storage requirement column

Average Conditions-

Flow to pond =	(Effluent Flow (MGD)) * (# of Days) * (3.0684)
Evaporation From Pond=	(Pond Surface Acres) * (Evaporation Rate)
Evaporation Rate=	25-year average monthly net evaporation
Storage Requirements=	(Flow to Pond)-(Evaporation From Pond)
Total Storage Necessary=	Sum of storage requirement column

ATTACHMENT 8

Pond Liner Certification

1.0 INTRODUCTION

1.1 Authorization

EE&G, Inc. (EE&G) has undertaken and completed a Pond Liner Certification Site Assessment for the evaporation pond associated with wastewater permit WQ0003123000 located at Southwest Convenience Store (SCS) 7-Eleven #57218, 19765 US Highway 287, Harrold, Wilbarger County, Texas. The pond liner certification was preformed in accordance with wastewater permit WQ0003123000 requirements, the Notice of Violation dated 6/9/21 and Exit Interview form dated 5/3/21 documented in TCEQ Investigation No.: 1722688 (05/03/2021). A copy of the Notice of Violation is included in Appendix A and a copy of the Exit Interview form is included in Appendix B.

1.2 Purpose of Evaluation

The purpose of this study was to determine the physical characteristics of the unmodified in-situ soils utilized as the pond liner during the construction of the permitted evaporation pond at the subject facility. Permitted municipal and industrial wastewater holding ponds using unmodified in-situ soil must meet the follow requirements detailed in Title 30 of the Texas Administrative Code (TAC) Chapter 217.203:

1. The coefficient of permeability must be less than 1×10^{-7} cm/s;
2. At least 30% of the liner material must pass through a 200-mesh sieve;
3. The liner material must have a liquid limit greater that 30;
4. The liner material must have a plasticity index of 15 or greater.

1.3 Scope of Investigation

To accomplish these tasks, the following scope of services was performed:

a. Conducted a review of 30 TAC 217.203 for rules and guidance regarding domestic and industrial wastewater ponds;

b. Drilled a series of four (4) borings along the North, East, South and West sides of the pond to depths of approximately 3' below the maximum depth of the pond;

c. Collected four (4) representative native soil samples from approximately 3.0 ft. below the maximum depth of the pond and four (4) representative native soil samples from within the sidewalls at approximate depths at or below the water level of the pond;

d. Prepared appropriate site plans detailing the site vicinity, test boring locations and geotechnical testing results;

e. Provided photographic documentation of the investigation activities;

f. Prepared and submitted this Pond Liner Certification Report to the TCEQ Region 3 office in Abilene, Texas detailing the results of the investigation.

2.0 PROPERTY DESCRIPTION

2.1 Wastewater System Description

The onsite 15,000 gpd max capacity waste water system is comprised of one (1) – 14,867-gallon compartmentalized aeration tank connected by a series of 12" booted crossovers to one (1) – 3,094-gallon clarification tank connected to the aeration tank by two (2) 12" 90-degree elbows. A Norweco LF3000 chlorinator connects the clarification tank to the 750-gallon chlorine contact tank. Treated wastewater is discharged from the chlorine contact tank through a 4" PVC outlet into the evaporation pond encompassing approximately 44,027 ft^2.

3.0 SUBSURFACE SITE INVESTIGATION

3.1 General

EE&G reviewed 30 TAC 217.203 guidelines for domestic and industrial wastewater impoundments (ponds) prior to conducting assessment activities. Additionally, EE&G discussed different sampling programs with the TCEQ Region 3 wastewater department to develop an adequate sampling plan for the wastewater pond.

3.2 Subsurface Soil Assessment

Subsurface conditions at the site were explored by drilling four (4) test borings in approximately the center or most accessible location of the North, East, South and West sidewalls of the wastewater pond. The height of the sidewalls were measured prior to assessment activities and found to be approximately 5.0 – 6.0 ft above the current static water level of the pond. At the time of the assessment, the maximum depth of the pond below the sidewall was estimated to be approximately 12.0 ft. Each boring was advanced to a predetermined depth of 15.0 ft below ground surface (bgs) into native, undisturbed soils approximately 3.0 ft below the bottom level of pond. A site plan depicting pond liner sample locations is included as Figure 1. Soil boring logs are included in Appendix C.

Soil samples were collected based upon the following criteria:

1) Beneath the static water level and above the bottom of the pond (sidewalls);
2) Bottom of the boring from 15.0 – 16.5 ft bgs (approximately 3.0 ft below the bottom level of the pond).

Soil samples were collected in individual shelby tubes to obtain undisturbed, representative soil samples. The shelby tubes were hydraulically advanced approximately 18 inches into the native soils before they were extracted from the borehole. The open ends of the shelby tubes were sealed to prevent moisture from escaping and secured inside the vehicle for transport. The boreholes were plugged with bentonite and replaced native soils.

Soil samples collected were submitted to Team Consultants, Inc. for geotechnical analyses to determine if native soils met the 30 TAC 217.203 requirements for wastewater pond liners. The following analysis and testing methods that were performed are as follows:

1) Unified Soil Classification System (ASTM D-2488)
2) Amount of Material in Soils Finer than No. 200 Sieve (ASTM D-1140)
3) Atterberg Limits ASTM D-4318 (Liquid Limit/Plasticity Index)
4) Permeability Test (EM 1110-2-1906)

3.3 Geotechnical Testing Results

A total of eight (8) soil samples [two (2) from each bore hole, one (1) side wall and one (1) bottom] were collected from test borings B-1, B-2, B-3 and B-4 at depths determined in the field.

Based on the geotechnical data obtained, all submitted soil samples exceed the pond liner requirements documented in 30 TAC 217.203. It appears that native, undisturbed soils used in the historic construction of the wastewater pond for wastewater permit WQ0003123000 are acceptable and certifiable for use as a pond liner.

Geotechnical testing results for each soil sample are included in Appendix D and photographs of the site and subsurface investigation operations are included in Appendix E.

4.0 Data Certification

4.1 Professional Engineer Certification

The undersigned Registered Professional Engineer is familiar with the requirements of Title 30 of the Texas Administrative Code (TAC), Chapter 217. The undersigned Registered Professional Engineer attests that the geotechnical data provided in this report meets and/or exceeds the requirements stated in 30 TAC 217.203 and that the tested soils are acceptable for use as a pond liner.

James J. Weisman Jr.
Signature

59495
Professional Engineer Registration Number

James J. Weisman, Jr.
Name

Professional Engineer
Title

Weisman Engineering
Engineering Firm

F-67
Engineering Firm Registration Number

EE&G, Inc.
Company

10/11/2021
Date

STATE OF TEXAS
WEISMAN JR.
59495
LICENSED
PROFESSIONAL ENGINEER

TEAM Consultants, Inc.

Geotechnical, Environmental, Construction Materials Testing

October 5, 2021
TEAM Project No. 182058
Report No. 4

Environmental Engineering and Geotechnics, Inc.
1632 Southeast Parkway
Azle, TX 76020

Attn: Mr. Travis Williams

Re: Laboratory Soil Tests
SCS #218 Wastewater Pond Liner Certification

Dear Mr. Williams:

Submitted here is our report of laboratory testing services completed on 8 undisturbed soil samples received from Mr. Travis Williams on September 28, 2021 for the above referenced project. The laboratory test program requested by Mr. Williams was completed utilizing the following test methodologies:

Atterberg Limits	ASTM D-4318
Grain size Analysis	ASTM D-422
Classification of Soils	ASTM D-2487
Coefficient of Permeability	USACE EM1110-2-1906, Appendix VII

We appreciate the opportunity to be of assistance to you with this project. Should you have any questions, or if we may be of further assistance, please call the undersigned at (817) 467-5500.

Jason Young, GIT
Staff Geologist

SUMMARY OF LABORATORY TEST RESULTS

EE&G
SCS #218 Wastewater Pond Liner

Boring Number	Depth (ft)	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)		Amount of Material in Soils Finer than No. 200 Sieve (ASTM D-1140) (% Passing)	ATTERBERG LIMITS (ASTM D-4318) LIQUID LIMIT	ATTERBERG LIMITS (ASTM D-4318) PLASTICITY INDEX	PERMEABILITY TEST (EM 1110-2-1906) MOISTURE CONTENT (%)	PERMEABILITY TEST (EM 1110-2-1906) DRY DENSITY (pcf)	PERMEABILITY TEST (EM 1110-2-1906) FALLING HEAD PERMEABILITY K (cm/sec)
B-1	5-6.5	Reddish brown sandy lean clay	CL	62.9	44	27	10.1	122.0	3.89E-09
B-1	15-16.5	Reddish brown fat clay	CH	96.8	50	26	17.2	114.6	9.69E-09
B-2	5-6.5	Reddish brown lean clay with sand	CL	81.3	46	27	19.6	104.9	3.26E-09
B-2	15-16.5	Reddish brown lean clay	CL	96.7	41	18	14.1	122.0	3.99E-09
B-3	5-6.5	Reddish brown lean clay with sand	CL	78.3	44	25	10.0	108.4	5.49E-08
B-3	15-16.5	Reddish brown lean clay	CL	97.8	40	17	15.2	120.4	4.06E-09
B-4	6-7.5	Reddish brown lean clay with sand	CL	84.2	49	32	11.5	119.5	1.71E-09
B-4	15-16.5	Reddish brown lean clay	CL	95.5	42	19	14.5	118.7	1.32E-08