



Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
3. Second notice (NAPD-Notice of Preliminary Decision)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

Fellowship Church (CN603204504) operates Allaso Ranch Camp WWTP (RN105501035), an activated sludge process plant operated in the extended aeration mode. The facility is located at 2302 Private Rd 7850, in Hawkins, Wood County, Texas 75765. This application is for a renewal to dispose a daily average flow not to exceed 40,000 gallons per day of treated domestic wastewater. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7.. Process waste water is treated by Prepackaged extended aeration system in which sewage passes through a bar screen to an aeration chamber and then to a clarifying

chamber, sludge is transferred to a digester and supernatant is moved to a chlorine chamber and then to discharge to a storage pond for subsequent application for irrigation..

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0015097001

APPLICATION. Fellowship Church, 2302 Private Road 7850, Hawkins, Texas 75765 has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0015097001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 40,000 gallons per day via irrigation on 18 acres of non-public access pastureland. The domestic wastewater treatment facility and disposal area are located at 2302 Private Road 7850 near the city of Hawkins, in Wood County, Texas 75765. TCEQ received this application on August 22, 2025. The permit application will be available for viewing and copying at Allen Memorial Public Library, 121 East Blackburn, Hawkins, in Wood County, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.278351,32.646119&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 Fellowship Church at the address stated above or by calling Mr. Kevin Ballard, Allaso Ranch Director, at 903-769-7312.

Issuance Date: September 15, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

RENEWAL

PERMIT NO. WQ0015097001

APPLICATION AND PRELIMINARY DECISION. Fellowship Church, 2302 Private Road 7850, Hawkins, Texas 75765, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0015097001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 40,000 gallons per day via surface irrigation of 18 acres of non-public access pastureland. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on August 22, 2025.

The wastewater treatment facility and disposal site are located at 2302 Private Road 7850, in Wood County, Texas 75765. The wastewater treatment facility and disposal site are located in the drainage basin of Sabine River Below Lake Tawakoni in Segment No. 0506 of the Sabine River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.278351,32.646119&level=18>

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Allen Memorial Public Library, 121 East Blackburn, Hawkins, in Wood County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

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

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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

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

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Fellowship Church at the address stated above or by calling Mr. Kevin Ballard, Allaso Ranch Director, at 903-769-7312.

Issuance Date November 7, 2025

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 22, 2025

Re: Confirmation of Submission of the Renewal without changes for Private Domestic Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Renewal without changes for the Private Domestic Wastewater authorization.

ER Account Number: ER102597
Application Reference Number: 775223
Authorization Number: WQ0015097001
Site Name: Allaso Ranch Camp WWTP
Regulated Entity: RN105501035 - Fellowship Youth Camp WWTP
Customer(s): CN603204504 - Fellowship Church

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0015097001

Site Information (Regulated Entity)

What is the name of the site to be authorized?	ALLASO RANCH CAMP WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	2302 PRIVATE ROAD 7850
City	HAWKINS
State	TX
ZIP	75765
County	WOOD
Latitude (N) (##.#####)	32.646119
Longitude (W) (-###.#####)	-95.278351
Primary SIC Code	
Secondary SIC Code	4952
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN105501035
What is the name of the Regulated Entity (RE)?	FELLOWSHIP YOUTH CAMP WWTP
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	FACILITY WILL BE LOCATED APPROX 885' NW OF THE INTERX OF CR 3841 AND CR 7850 HAWKINS, WOOD COUNTY, TX
City	HAWKINS
State	TX
ZIP	75765
County	WOOD
Latitude (N) (##.#####)	32.646111
Longitude (W) (-###.#####)	-95.278333
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC N/D

Fellows-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN603204504
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Fellowship Church
Texas SOS Filing Number	116711701
Federal Tax ID	752302539
State Franchise Tax ID	17523025397

State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	251-500
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Fellowship Church
Prefix	
First	Dennis
Middle	
Last	Worrell
Suffix	
Credentials	
Title	Operations Manager
Responsible Authority Mailing Address	
Enter new address or copy one from list:	Site Physical Address
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2302 PRIVATE ROAD 7850
Routing (such as Mail Code, Dept., or Attn:)	
City	HAWKINS
State	TX
ZIP	75765
Phone (###-###-####)	9037697331
Extension	
Alternate Phone (###-###-####)	9037697300
Fax (###-###-####)	
E-mail	dennis.worrell@allasoranch.com

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN603204504, Fellowship Church
Organization Name	FELLOWSHIP CHURCH
Prefix	
First	Maria
Middle	
Last	Broadfield
Suffix	
Credentials	
Title	
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2450 N HIGHWAY 121
Routing (such as Mail Code, Dept., or Attn:)	
City	GRAPEVINE
State	TX

ZIP	76051
Phone (###-###-####)	9724716691
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Maria.Broadfield@FELLOWSHIPCHURCH.COM

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	CN603204504, Fellowship Church
Organization Name	Fellowship Church
Prefix	
First	Dennis
Middle	
Last	Worrell
Suffix	
Credentials	
Title	Operations Manager

Enter new address or copy one from list:

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2302 PRIVATE ROAD 7850
Routing (such as Mail Code, Dept., or Attn:)	
City	HAWKINS
State	TX
ZIP	75765
Phone (###-###-####)	9037697331
Extension	
Alternate Phone (###-###-####)	9037697300
Fax (###-###-####)	
E-mail	dennis.worrell@allasoranch.com

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	CONSULTING ENVIRONMENTAL ENGINEERS INC
Prefix	MR
First	CHARLES
Middle	
Last	GILLESPIE
Suffix	
Credentials	
Title	Project Engineer

Enter new address or copy one from list:

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	150 N HARBIN DR
Routing (such as Mail Code, Dept., or Attn:)	
City	STEPHENVILLE
State	TX
ZIP	76401
Phone (###-###-####)	2549688130
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2549688134
E-mail	CEEUNC@CEEINC.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	Application Contact
Organization Name	Fellowship Church
Prefix	
First	Dennis
Middle	
Last	Worrell
Suffix	
Credentials	
Title	Operations Manager
Enter new address or copy one from list:	

Mailing Address:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2302 PRIVATE ROAD 7850
Routing (such as Mail Code, Dept., or Attn:)	
City	HAWKINS
State	TX
ZIP	75765
Phone (###-###-####)	9037697331
Extension	
Alternate Phone (###-###-####)	9037697300
Fax (###-###-####)	
E-mail	dennis.worrell@allasoranch.com

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Application Contact
2) Organization Name	Fellowship Church
3) Prefix	
4) First	Dennis
5) Middle	
6) Last	Worrell

7) Suffix
 8) Credentials
 9) Title Operations Manager
Mailing Address
 10) Enter new address or copy one from list
 11) Address Type Domestic
 11.1) Mailing Address (include Suite or Bldg. here, if applicable) 2302 PRIVATE ROAD 7850
 11.2) Routing (such as Mail Code, Dept., or Attn:)
 11.3) City HAWKINS
 11.4) State TX
 11.5) ZIP 75765
 12) Phone (###-###-####) 9037527331
 13) Extension
 14) Alternate Phone (###-###-####)
 15) Fax (###-###-####)
 16) E-mail dennis.worrell@allasoranch.com

Owner Information

Owner of Treatment Facility

1) Prefix
 2) First and Last Name Allaso Ranch
 3) Organization Name Fellowship Church
 4) Mailing Address 2450 N. Highway 121
 5) City Grapevine
 6) State TX
 7) Zip Code 76051
 8) Phone (###-###-####) 9724715700
 9) Extension
 10) Email brad.stovall@fellowshipchurch.com
 11) What is ownership of the treatment facility? Private

Owner of Land (where treatment facility is or will be)

12) Prefix
 13) First and Last Name
 14) Organization Name Fellowship Church
 15) Mailing Address 2450 N. Highway 121
 16) City Grapevine
 17) State TX
 18) Zip Code 76051
 19) Phone (###-###-####) 9724715700
 20) Extension
 21) Email brad.stoval@fellowshipchurch.com
 22) Is the landowner the same person as the facility owner or co-applicant? Yes

General Information Renewal-Amendment

1) Current authorization expiration date: 03/01/2026
 2) Current Facility operational status: Active

3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Renewal without changes
5) Current Authorization type:	Private Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	.04
5.2) Select the applicable fee	< .05 MGD - Renewal - \$315
6) What is the classification for your authorization?	TLAP
6.1) Is the location of the effluent disposal site in the existing permit accurate?	Yes
6.2) City nearest the disposal site:	Hawkins
6.3) County in which the disposal site is located:	WOOD
6.4) Describe the routing of effluent from the treatment facility to the disposal site:	The effluent will flow from a prepackaged treatment system to a storage system consisting of 650,000 gallon lagoon to an irrigation system consisting of approximately 13 acres of common bermuda as a primary crop and a grass-legume mixture as a supplemental cool weather crop.
6.5) Identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:	Wisembaker Lake
6.6) If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?	Not Applicable
Owner of Effluent TLAP Disposal Site	
6.7) Prefix	
6.8) First and Last Name	
6.9) Organization Name	Fellowship Church
6.10) Mailing Address	2450 N. Highway 121
6.11) City	Grapevine
6.12) State	TX
6.13) Zip Code	76051
6.14) Phone (###-###-####)	9724175700
6.15) Extension	
6.16) Email	brad.stovall@fellowshipchurch.com
6.17) Is the landowner the same person as the facility owner or co-applicant?	Yes
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Individual Publishing the Notices

1) Prefix	
2) First and Last Name	Kevin Ballard
3) Credential	
4) Title	Allaso Camp Director
5) Organization Name	Allaso Ranch-Fellowship Church
6) Mailing Address	2302 PRIVATE ROAD 7850
7) Address Line 2	
8) City	HAWKINS
9) State	TX
10) Zip Code	75765

11) Phone (###-###-####)	9037697312
12) Extension	
13) Fax (###-###-####)	
14) Email	kevin.ballard@allasoranch.com
Contact person to be listed in the Notices	
15) Prefix	
16) First and Last Name	Kevin Ballard
17) Credential	
18) Title	Allaso Ranch Director
19) Organization Name	Allaso Ranch-Fellowship Church
20) Phone (###-###-####)	9037697312
21) Fax (###-###-####)	
22) Email	kevin.ballard@allasoranch.com
Bilingual Notice Requirements	
23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	No

Section 1# Public Viewing Information

County#: 1

1) County	WOOD
2) Public building name	Allen Memorial Public Library
3) Location within the building	
4) Physical Address of Building	201 CR3900
5) City	Hawkins
6) Contact Name	
7) Phone (###-###-####)	9037692241
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES.pdf
Hash	C2539A383B1DD14F1E5641079AFB650A286575BC6416EFBF10CB63EC236F2E53
MIME-Type	application/pdf

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.	
[File Properties]	
File Name	MAP_wwTP permit - topo map.pdf
Hash	ADCB8D7C19BCA8119E9E40D1934FF6748FEC26B805A87029E376B5DC06230015
MIME-Type	application/pdf

[File Properties]

File Name	MAP_Allaso Ranch Camp and Retreat Center- Topo Map.pdf
Hash	91B48BC572F5F6C2A26DC903549BF986B967A1F5B84C7E6C2C66DEFB896FD6B4
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
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2.1) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
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2.2) I confirm that Worksheet 3.0 (Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
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2.3) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	No
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2.4) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	No
---	----

2.5) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No
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2.6) Technical Attachment

[File Properties]

File Name	TECH_WWTP Permit Renwal 2026 (due 9-1-2025) Fellowship Church-Allaso Ranch.pdf
Hash	11D122B28942E7B5158836F3FF03490E9289B8215B2F8528F353FFDBB463D6B2
MIME-Type	application/pdf

3) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_wwTP permit - Buffer Zone map.pdf
Hash	389D258FAC65A2DB8329A63E33EE8F90F06B02D18B22DB12DD98C1DAB6C86F61
MIME-Type	application/pdf

4) Flow Diagram

[File Properties]

File Name	FLDIA_wwTP permit -Flow diagram.pdf
Hash	0CEF963DFAF76D9A8FE04D4D168F746413B76358755380E8901A347827E7BEE9
MIME-Type	application/pdf

5) Site Drawing

[File Properties]

File Name	SITEDR_wwTP permit - site drawing.pdf
Hash	614766C5C222FADB4A64CA20F92F65327C25E577037C2936E6B08D957D5A36D1
MIME-Type	application/pdf

6) Design Calculations

[File Properties]

File Name	DES_CAL_WWTP permit - Design calculations.pdf
Hash	7AF856AD98FCCFA3BD6CF4E8422ED4666673080D940D31B69F3FBFDBA32C6846
MIME-Type	application/pdf

7) Solids Management Plan

[File Properties]

File Name	SMP_WWTP Permit Renwal- Sludge Mngt Calc Sheet.pdf
Hash	C75D9261FA0527D1C3AB120D273E3EE30CE3F676F4C0AAC6C5057C2903C6275E
MIME-Type	application/pdf
8) Water Balance	
9) Other Attachments	
[File Properties]	
File Name	OTHER_Allaso Ranch WWTP renewal - Wind Rose.pdf
Hash	6A01928AC49EBB29EAEC5833DC60552B6439763D8F5F8031E20E0C2DF88222EF
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_SPL - 1152469_r00_00_TableOfContents.pdf
Hash	380DF08B09448F1F321D16B3F3E3009D6366224219EEE403E8FE7A21967B04C3
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Soil Test for Waste water irrigation feild - 2025.pdf
Hash	59982785F74207C36E8D3C2A4F88073A4DE7C66B9F9364F3F37062C0D5D1942A
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_WWTP Permit Renwal- Crop Plan.pdf
Hash	BFB89BAD2316B9F54B513C33B8E6CAF9A4D5E3C4C3811974874B9EF73F274AD4
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_WWTP Permit Renwal- Nitrogen Calculations.pdf
Hash	DA8A106EC880DA02A64748B1F062152B9C2AAE2A2D3ADD667DF0C8129C8197F5
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_WWTP Permit Renwal- Soil Map.pdf
Hash	E4F8154A26E10683144C51F8DB34F93BE662E6571DBFFEBC77C410B57710A0CC
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_WWTP lab tests for permit renewal- 2025.pdf
Hash	7D96EBFAEF7D7A173D1B09EC410FE0A9362D128C3D607D83B18EA3ED3224AAC9
MIME-Type	application/pdf

Certification

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

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.

1. I am Dennis Worrell, the owner of the STEERS account ER102597.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0015097001.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Dennis Worrell OWNER	
Customer Number:	CN603204504
Legal Name:	Fellowship Church
Account Number:	ER102597
Signature IP Address:	72.34.177.162
Signature Date:	2025-08-21
Signature Hash:	C0F9FB711E9E6151925C51042A2B3404C2E61685FA1A216A5DFBCA5F1546E976
Form Hash Code at time of Signature:	E5F1F85AABA5DB619A14B28C4CB4705FAA1BB4E1E482886D38359DADD6406B06

Fee Payment

Transaction by:	The application fee payment transaction was made by ER102597/Dennis Worrell
Paid by:	The application fee was paid by DENNIS WORRELL
Fee Amount:	\$300.00
Paid Date:	The application fee was paid on 2025-08-22
Transaction/Voucher number:	The transaction number is 582EA000682130 and the voucher number is 780468

Submission

Reference Number:	The application reference number is 775223
Submitted by:	The application was submitted by ER102597/Dennis Worrell
Submitted Timestamp:	The application was submitted on 2025-08-22 at 07:02:41 CDT
Submitted From:	The application was submitted from IP address 72.34.177.162
Confirmation Number:	The confirmation number is 672896
Steers Version:	The STEERS version is 6.92
Permit Number:	The permit number is WQ0015097001

Additional Information

Application Creator: This account was created by Dennis Worrell



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): .02

2-Hr Peak Flow (MGD): .06

Estimated construction start date: 03/09

Estimated waste disposal start date: 04/09

B. Interim II Phase

Design Flow (MGD): .02

2-Hr Peak Flow (MGD): .06

Estimated construction start date: 10/09

Estimated waste disposal start date: 11/09

C. Final Phase

Design Flow (MGD): .040

2-Hr Peak Flow (MGD): .120

Estimated construction start date: 10/09

Estimated waste disposal start date: 11/09

D. Current Operating Phase

Provide the startup date of the facility: 11/09

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Prepackaged extended aeration system in which sewage passes through a bar screen to an aeration chamber and then to a clarifying chamber, sludge is transferred to a digester and supernatant is moved to a chlorine chamber and then to discharge to a holding pond for subsequent application for irrigation.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) of **each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration basin	2	11.25' x 9.5' x 34'
Digester/sludge storage	2	11.25' x 9.5' x 10.5'
Clarifier	2	11.25' x 9.5' x 6'
Chlorine chamber	2	11.25' x 9.5' x 2'

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.
Attachment: FLDIA_wwTP permit -Flow diagram.pdf

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

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

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

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

- Latitude: 32.646111
- Longitude: -95.278333

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: SITEDR_wwTP permit - site drawing.pdf

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

Allaso Ranch Camp. The plant serves as a new learning and recreational facility for members of the Fellowship Church. There are no facilities located within three miles of the location.

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 11/2009

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. **Stormwater management**

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

4. Existing coverage in individual permit

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

☐ Yes ☐ No

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

Click to enter text.

5. Zero stormwater discharge

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

☐ Yes ☐ No

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

Click to enter text.

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

6. Request for coverage in individual permit

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

☐ Yes ☐ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l		7.53	1	grab	8/7/25
Total Suspended Solids, mg/l		17.0	1	grab	8/7/25
Ammonia Nitrogen, mg/l		<.02	1	grab	8/7/25
Nitrate Nitrogen, mg/l		7.711	1	grab	8/7/25
Total Kjeldahl Nitrogen, mg/l		0.791	1	grab	8/7/25
Sulfate, mg/l		39.8	1	grab	8/7/25
Chloride, mg/l		119	1	grab	8/7/25
Total Phosphorus, mg/l		5.83	1	grab	8/7/25
pH, standard units		7.3	1	grab	8/7/25
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l		1.51	1	grab	8/7/25
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l		550	1	grab	8/7/25
Electrical Conductivity, umohs/cm, †		905	1	grab	8/7/25
Oil & Grease, mg/l		<4.44	1	grab	8/7/25
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Scott Wiler

Facility Operator's License Classification and Level: Class C

Facility Operator's License Number: WW0065491

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

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

Biosolids Management

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

If “Other” is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): transport to another facility for processing

D. Disposal site

Disposal site name: Vital Earth
TCEQ permit or registration number: Click to enter text.
County where disposal site is located: Wood

E. Transportation method

Method of transportation (truck, train, pipe, other): Truck
Name of the hauler: A&A Septic
Hauler registration number: 23370
Sludge is transported as a:
Liquid ☐ semi-liquid ☒ semi-solid ☐ solid ☐

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

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?
☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?
☐ Yes ☐ No

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

B. Sludge processing authorization

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

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

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

- ☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

- ☐ Yes ☒ No

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

A. Location information

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

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

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

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

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

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

Click to enter text.

B. Temporary storage information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

E. Groundwater monitoring

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

☐ Yes ☐ No

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

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

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

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

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

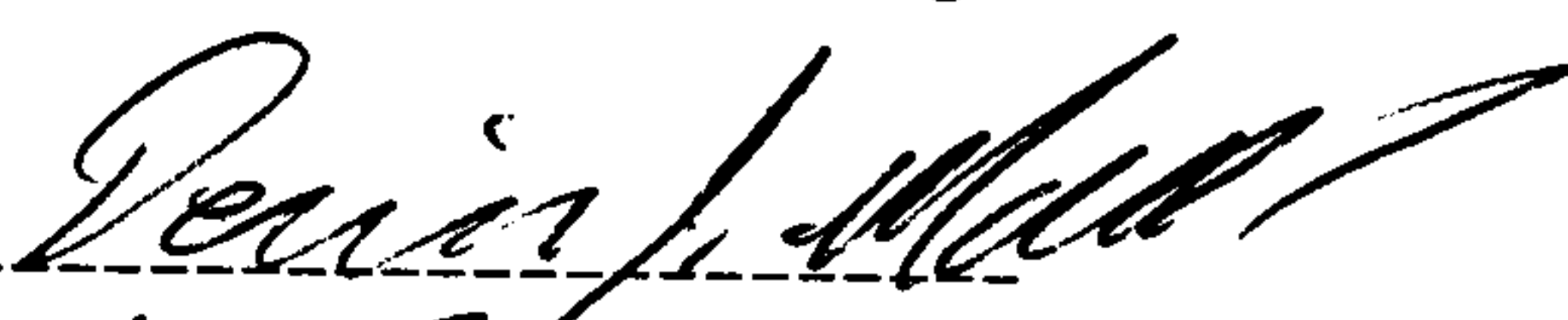
The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

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

Printed Name: Dennis Worrell

Title: Facility Operations Manager

Signature: 

Date: 8-21-25

DOMESTIC WASTEWATER PERMIT APPLICATION
WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: WQ0015097001

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Bermuda grass, pasture land	13	40,000	N

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	2	9.89	210' x 410' x5.0'	In-situ clay

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

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

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

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

☐ Yes ☒ No

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

[Click to enter text.](#)

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

Flood Plain Map Panel #481055 0009 A

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

Series of berms in place to control tailwater runoff.

Section 5. Annual Cropping Plan (Instructions Page 68)

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

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

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

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

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

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

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
96905	Domestic water	y	cased	
183415	Domestic water	y	cased	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

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

Section 7. Groundwater Quality (Instructions Page 69)

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

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

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

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

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

A. Soil map

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

Attachment: [soil map](#)

B. Soil analyses

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

Attachment: [Annual soil test attached](#)

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
Darco	0"-8"	6.0-20	0.05-0.08	
Darco	8"-50"	6.0-20	0.05-0.10	
Darco	56"-80"	0.6-2.0	0.10-0.15	
Lilbert	0"-9"	6.0-20	0.05-0.08	
Lilbert	9"-32"	6.0-20	0.05-0.10	
Lilbert	32"-80"	0.6-2.0	0.10-0.15	

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
7-31-23	.411	7.71	5.51	3.1	1.2	13
8-30-23	.291	7.29	22.38	7.9	1.0	13
9-29-23	.255	5.64	6.86	8.1	1.1	13
10-30-23	.186	7.72	9.00	7.9	1.0	13
11-29-23	.166	8.87	12.9	8.4	1.1	13
12-29-23	.197	11.53	32.6	8.2	1.1	13
1-29-24	.144	16.57	10.35	8.3	1.6	13
2-29-24	.103	12.48	43.85	6.9	1.7	13
3-29-24	.269	16.00	8.17	8.3	1.1	13
4-30-24	.128	6.78	5.5	8.4	1.1	13
5-31-24	.246	6.33	4.14	7.9	1.3	13
6-29-24	.429	15.18	23.18	8.0	1.3	13
7-31-24	.330	20.96	17.78	8.0	1.1	13
8-30-24	.078	10.19	27.3	7.9	1.1	13
9-30-24	.162	11.7	24.35	8.2	1.1	13
10-30-24	.206	9.02	25.76	8.3	1.0	13
11-29-24	.109	8.23	23.55	7.5	1.0	13
12-30-24	.090	9.16	16.38	8.0	1.1	13
1-31-25	.086	10.21	20.13	8.3	1.0	13
2-28-25	.072	8.96	20.55	8.1	1.3	13
3-31-25	.116	6.80	25.0	7.7	1.0	13
4-30-25	.131	6.21	10.36	8.2	1.1	13
5-30-25	.063	5.30	15.95	7.4	1.0	13
6-30-25	.227	18.59	25.0	8.0	1.3	13

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

N/A

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: 13

Design application frequency:

hours/day 8 And days/week 7

Land grade (slope):

average percent (%): 3

maximum percent (%): 5

Design application rate in acre-feet/acre/year: 3.4

Design total nitrogen loading rate, in lbs N/acre/year: .38

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: N/A

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: N/A

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

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

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

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

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: N/A

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

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD₅ loading rate, in lbs BOD₅/acre/day: Click to enter text.

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: [Click to enter text.](#)

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

Area of drainfield, in square feet: [Click to enter text.](#)

Application rate, in gal/square foot/day: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

Area of trench, in square feet: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

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

Dosing amount per area, in inches/day: [Click to enter text.](#)

Infiltration rate, in inches/hour: [Click to enter text.](#)

Storage volume, in gallons: [Click to enter text.](#)

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

Soil Classification: [Click to enter text.](#)

Attach a separate engineering report with the information required in *30 TAC § 309.20*, excluding the requirements of *§ 309.20 b(3)(A)* and *(B)* design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

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

Section 2. Edwards Aquifer (Instructions Page 74)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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



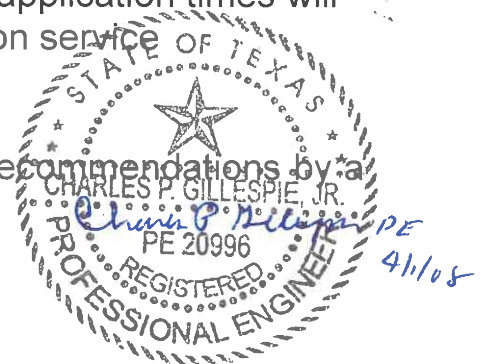
150 Harbin Drive - Suite 408
Stephenville, Texas 76401

Phone/Fax: 254-968-8130
email: ceeinc@ceeinc.org

Fellowship Youth Camp Exhibit XIV

Cropping Plan

- (1) The crop to be irrigated is a low maintenance warm season turfgrass, predominately Bermuda grass.
- (2) Growth occurs in these grasses when the mean temperature exceeds 55° F. In Wood County the mean monthly average temperature exceeds 55° in the months of March through October with the yearly average of 53.4°.
- (3) The crop will be exposed to limited foot traffic and will require supplemental water all during its growing season.
- (4) USDA soil survey information for Wood County indicates that these soils are comparable in the amount of forage produced. These soils have a surface layer of loamy fine sand to lower layers of sandy clay loam. The permeability is rapid to moderate and runoff is negligible on 1 to 5 percent slopes.
- (5) The wastewater to be used will contain low concentrations of nutrients so the full amount needed to maintain a healthy crop will be supplied by commercial fertilizer. Fertilizer application times will be determined by soil testing data and extension service recommendations.
- (6) Annual conditioning will be dictated based on recommendations by a qualified agricultural consultant.



**Agronomic Nitrogen
Use Calculations
For August 1, 2007-July 31, 2008
Fellowship Church Youth Camp**

1. Amount of hay harvest = 2 cuttings (harvested primarily by grazing)
2. Nitrogen requirements per acres = 225 lbs
3. Total Nitrogen Effluent – 15 mg/l (138 lbs/acre)
4. design Total Nitrogen loading rate = $138\text{lbs/acre}/365\text{ days} = .38\text{ lbs N/acre/day}$



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

Fellowship Church (CN603204504) operates Allaso Ranch Camp WWTP (RN105501035), an activated sludge process plant operated in the extended aeration mode. The facility is located at 2302 Private Rd 7850, in Hawkins, Wood County, Texas 75765. This application is for a renewal to dispose a daily average flow not to exceed 40,000 gallons per day of treated domestic wastewater. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7.. Process waste water is treated by Prepackaged extended aeration system in which sewage passes through a bar screen to an aeration chamber and then to a clarifying

chamber, sludge is transferred to a digester and supernatant is moved to a chlorine chamber and then to discharge to a storage pond for subsequent application for irrigation..

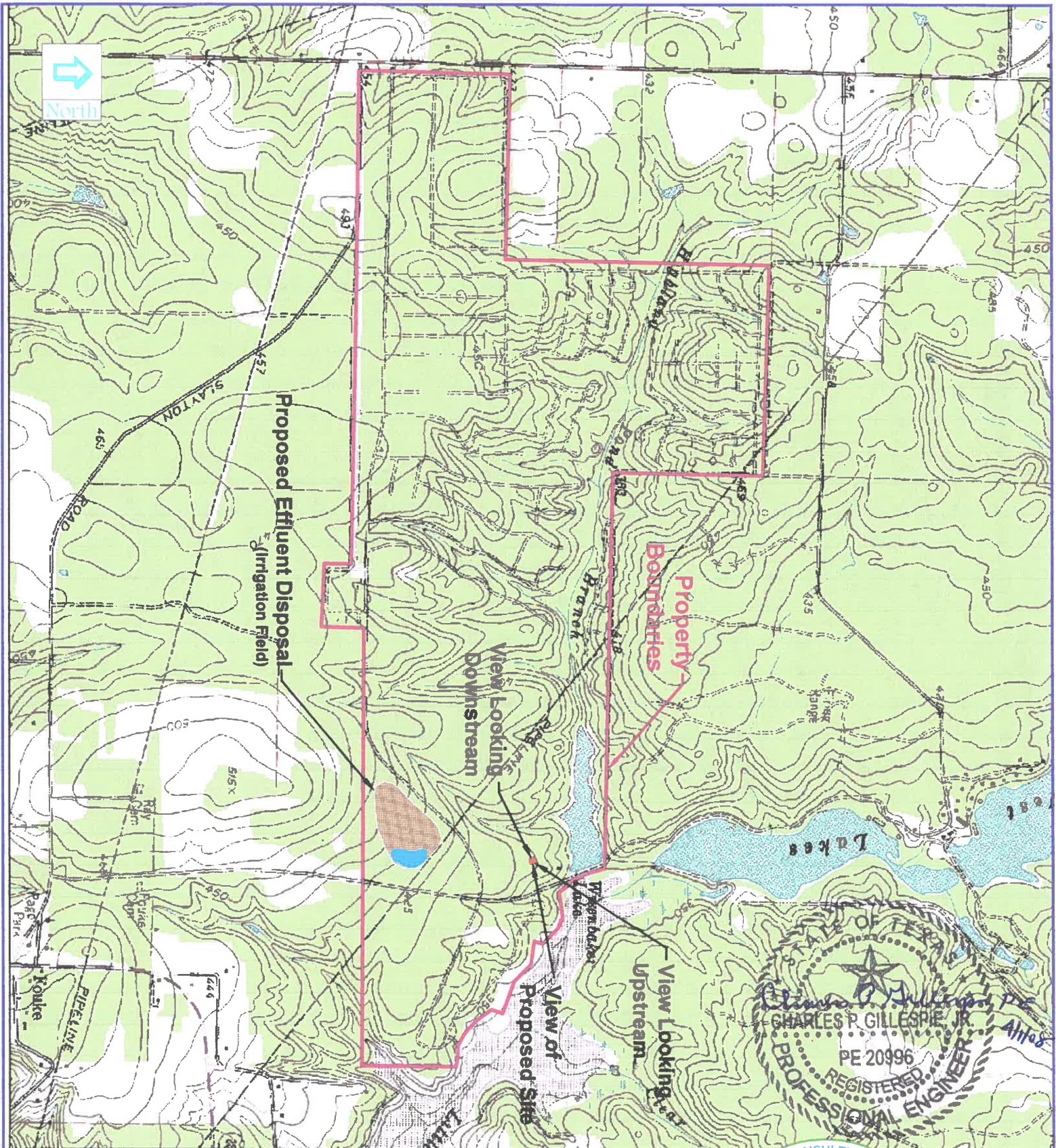


EXHIBIT
VII (a)

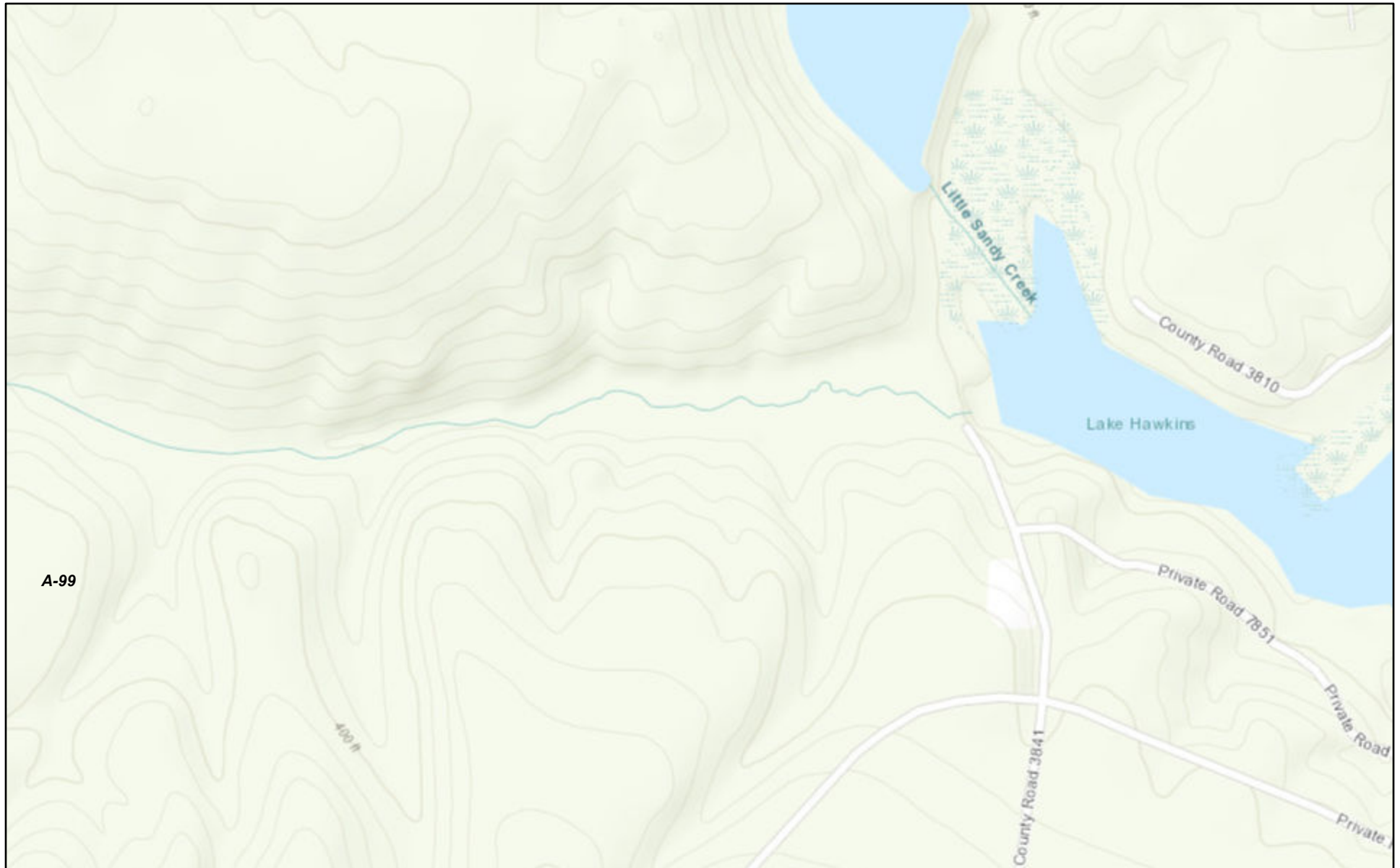
PROJECT NAME: Fellowship Church Youth Camp
DRAWING NAME: Photograph Location Map

DATE DRAWN: 3-28-08
DRAWN BY: CPG ala
SCALE: NTS



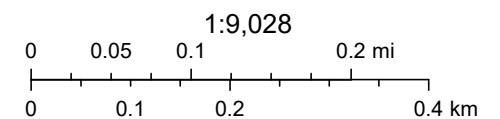
150 N. Harbin Dr. Suite 408
Stephenville, Texas 76401
Phone / Fax: (254) 968-8130
Email: ceeinc@ceeinc.org

Wood CAD Web Map



8/14/2025, 4:52:32 PM

 Abstracts



Smith County, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Wood County Appraisal District, BIS Consulting - www.bisconsulting.com

Disclaimer: This product is for informational purposes only and has not been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of boundaries.

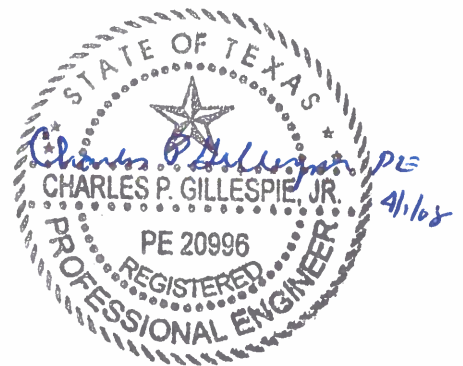
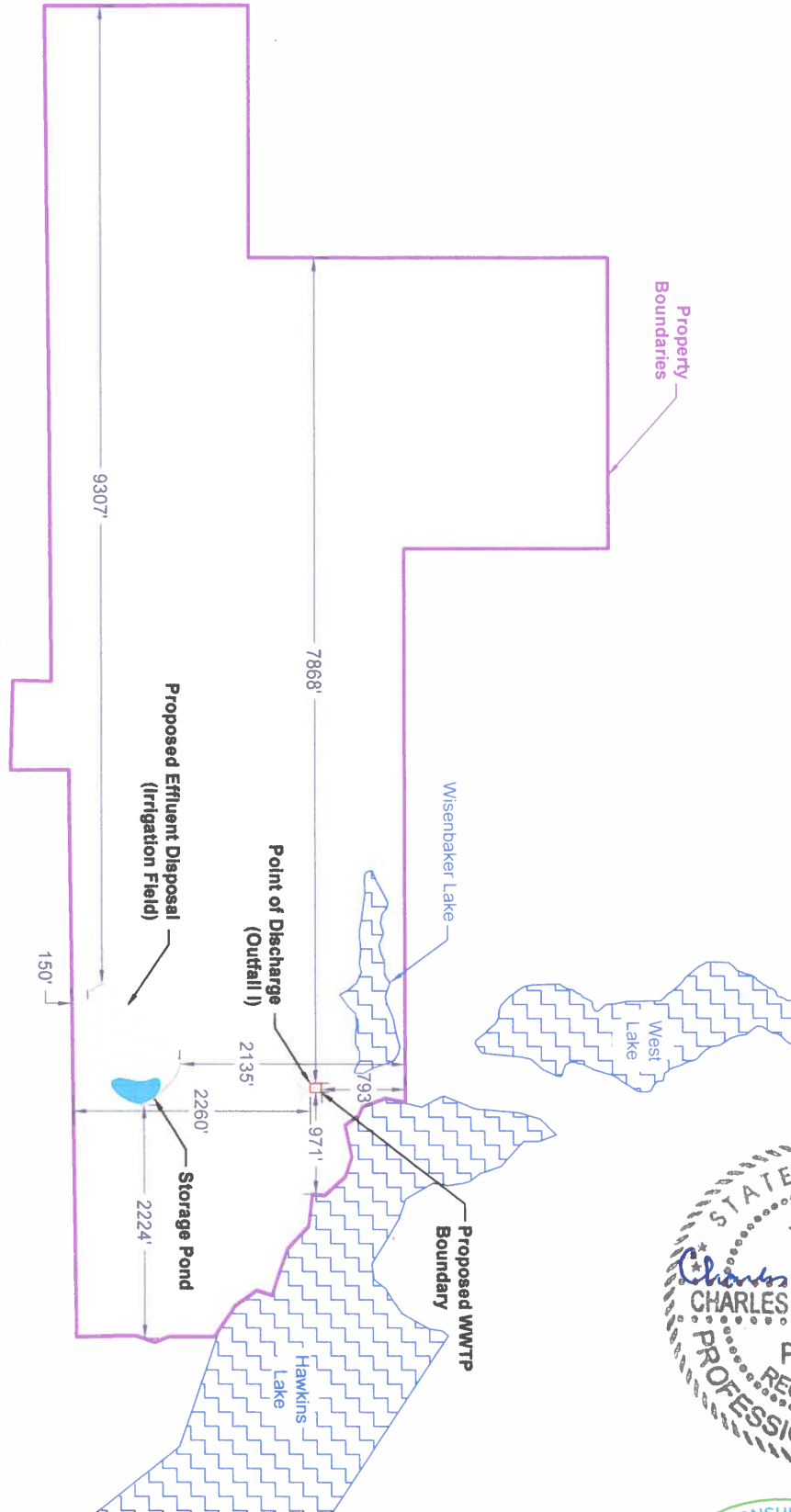
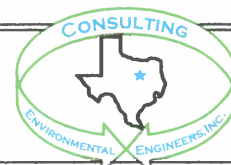


EXHIBIT
VI

PROJECT NAME: Fellowship Church Youth Camp
DRAWING NAME: Buffer Zone Map

DATE DRAWN: 3-28-08
DRAWN BY: CPG ala
SCALE: NTS



150 N. Harbin Dr. Suite 408
Stephenville, Texas 76401
Phone / Fax: (254) 968-8130
Email: ceeinc@ceeinc.org

**Fellowship Church
Youth Camp**

EXHIBIT X

Design Calculations

Extended Aeration - Design Spreadsheet

INPUT

$$ADF \text{ (average daily flow)} = 20,000 \text{ gallons/day}$$

$$BOD \text{ (biochemical oxygen demand)} = 325 \text{ mg/l}$$

OUTPUT

I Daily Average Organic Load

$$ADF \times 8.33 \frac{\text{lbs}}{\text{gallon}} \times \frac{BOD}{1,000,000 \text{ lbs}} = 54 \text{ lbs/day}$$

II Peak Flow Organic Load

$$3 \times ADF \times 8.33 \frac{\text{lbs}}{\text{gallon}} \times \frac{BOD}{1,000,000 \text{ lbs}} = 162 \text{ lbs/day}$$

III Daily Average Flow Clarifier Design Area

$$\frac{ADF}{500 \text{ gpd/ft}^2} = 40 \text{ ft}^2$$

IV Peak Flow Clarifier Design Area

$$3 \times \frac{ADF}{1,000 \text{ gpd/ft}^2} = 60 \text{ ft}^2$$



V Design Flow Clarifier Volume

$$\frac{3.6 \text{ hours} \times ADF}{24 \text{ hours}} \times \frac{ft^3}{7.48 \text{ gallons}} = 401 \text{ } ft^3$$

VI Peak Flow Clarifier Volume

$$\frac{3 \times 1.8 \text{ hours} \times ADF}{24 \text{ hours}} \times \frac{ft^3}{7.48 \text{ gallons}} = 602 \text{ } ft^3$$

Clarifier Length
5.629

VII Digester Volume

$$\frac{20 \text{ } ft^3}{lb/day} \times \text{daily average organic load (above Item I)} = 1,083 \text{ } ft^3$$

Digester Length
10.132

VIII Chlorine Tank Volume

$$\frac{3 \times ADF}{(7.48 \text{ gallons})(1440 \text{ minutes})} \times 20 \text{ minutes} = 111 \text{ } ft^3$$

Chlorine Chamber Length
1.5989

IX Aeration Basin Sizing

$$\text{daily average organic load (above Item I)} \times \frac{day}{15 \text{ lbs}} \times 1,000 \text{ } ft^3 = 3,610 \text{ } ft^3$$

Basin Length
33.775

X Air Supply For Aeration

$$\text{daily average organic load (above Item I)} \times \frac{1.98 \text{ } ft^3/min}{lb \text{ BOD}_5} = 107 \text{ } ft^3/min$$

XI Air Supply For Digestion

$$\text{digester volume (above Item VII)} \times \frac{30 \text{ ft}^3/\text{min}}{1,000 \text{ ft}^3} = \mathbf{32} \text{ ft}^3/\text{min}$$

XII Total Air Required

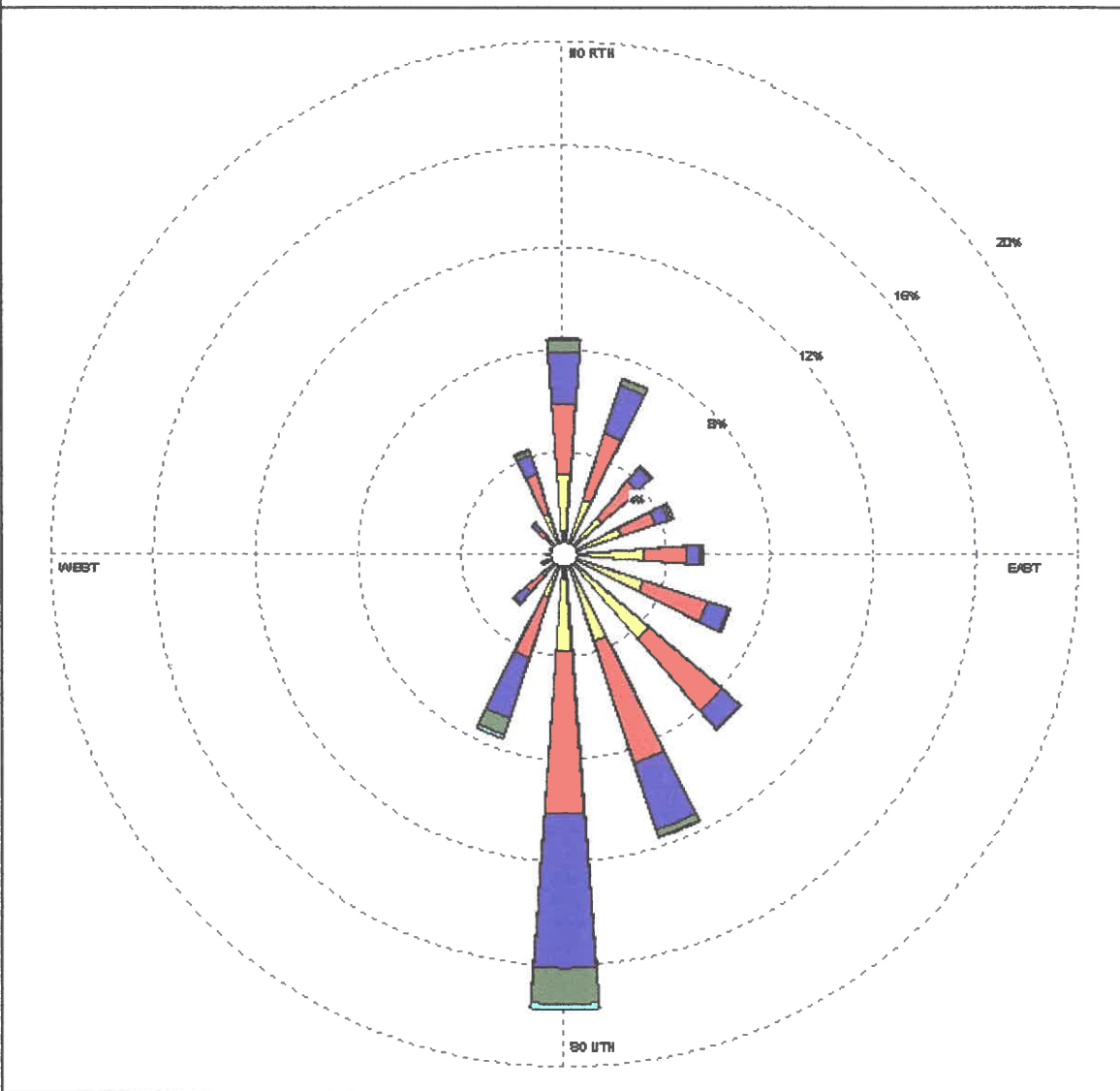
air supply for aeration (above Item X)

+ air supply for digestion (above Item XI)

$$+ 40 \text{ ft}^3/\text{min} \text{ (air lifts)} = \mathbf{180} \text{ ft}^3/\text{min}$$

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.31 - 5.40 1.80 - 3.31 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 4.46 m/s	CALM WINDS 6.40%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 Sep 1 - Sep 30 Midnight - 11 PM	

PPPL 01 Rev 2.3 by Celine Environmental Services - www.celine-environmental.com

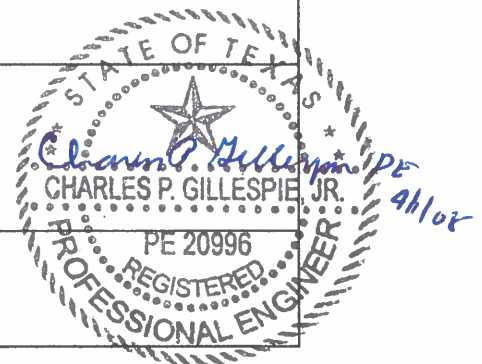


EXHIBIT
XII

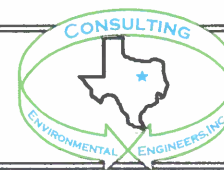
PROJECT NAME: Fellowship Church Youth Camp

DATE DRAWN: 3-28-08

DRAWN BY: CPG ala

DRAWING NAME: Wind Rose

SCALE: NTS



150 N. Harbin Dr. Suite 408
 Stephenville, Texas 76401
 Phone / Fax: (254) 968-8130
 Email: ceeinc@ceeinc.org

Project
1135104

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Printed 03/10/2025
9:10

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SAMPLE CROSS REFERENCE

Project

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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Sample	Sample ID	Taken	Time	Received
2378935	Soil 0-6	02/03/2025	15:00:00	02/05/2025

Bottle 01 Glass Qt w/Teflon lined lid

Bottle 02 Glass 8 oz w/Teflon lined lid

Bottle 03 Glass 4 oz w/Teflon lined lid

Bottle 04 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1159499) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)

Bottle 05 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1159499) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)

Bottle 06 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1159499) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)

Bottle 07 Prepared Bottle: Special Preparation (Batch 1159705) Volume: 100.00000 mL <== Derived from 03 (10 grams)

Bottle 08 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5.0 grams)

Bottle 09 Prepared Bottle: MPe Extraction (Batch 1160129) Volume: 15.00000 mL <== Derived from 02 (1.5 grams)

Bottle 10 Prepared Bottle: SAR extraction

Bottle 11 Prepared Bottle: SAR extraction

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 353.3			02/14/2025		02/14/2025
EPA 9056	08	1159933	02/10/2025	1160428	02/11/2025
EPA 6010B	09	1160129	02/11/2025	1160235	02/11/2025
EPA 6010B	10	1160946	02/14/2025	1160946	02/14/2025
EPA 6010C	09	1160129	02/11/2025	1160235	02/11/2025
EPA 6010C	10	1160946	02/14/2025	1160946	02/14/2025
EPA 6010B	09	1160129	02/11/2025	1160229	02/11/2025
USDA Handbook 60	01	1160928	02/14/2025	1160928	02/14/2025
EPA 9056			02/18/2025		02/18/2025
600/2-78-054 3.2.19			02/14/2025		02/14/2025
Handbook 60	01	1160677	02/13/2025	1160677	02/13/2025
EPA 351.2 2	04	1159499	02/06/2025	1159918	02/10/2025
Calculation	04	1159499	02/06/2025	1159918	02/12/2025
SM2540 G-1997 /MOD	01	1159764	02/06/2025	1159764	02/06/2025
EPA 9045D 4	01	1160017	02/10/2025	1160017	02/10/2025

Sample	Sample ID	Taken	Time	Received
2378936	Soil 6-18	02/03/2025	15:15:00	02/05/2025

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Allaso Ranch
 Dennis
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Bottle 01 Glass Qt w/Teflon lined lid
 Bottle 02 Glass 8 oz w/Teflon lined lid
 Bottle 03 Glass 4 oz w/Teflon lined lid
 Bottle 04 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1159499) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
 Bottle 05 Prepared Bottle: Special Preparation (Batch 1159705) Volume: 100.00000 mL <== Derived from 03 (10.0 grams)
 Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5 grams)
 Bottle 07 Prepared Bottle: MPe Extraction (Batch 1160129) Volume: 15.00000 mL <== Derived from 02 (1.6 grams)
 Bottle 08 Prepared Bottle: SAR extraction

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 353.3			02/14/2025		02/14/2025
EPA 9056	06	1159933	02/10/2025	1160428	02/11/2025
EPA 6010B	07	1160129	02/11/2025	1160235	02/11/2025
EPA 6010B	08	1160946	02/14/2025	1160946	02/14/2025
EPA 6010C	07	1160129	02/11/2025	1160235	02/11/2025
EPA 6010C	08	1160946	02/14/2025	1160946	02/14/2025
EPA 6010B	07	1160129	02/11/2025	1160229	02/11/2025
USDA Handbook 60	01	1160928	02/14/2025	1160928	02/14/2025
EPA 9056			03/10/2025		03/10/2025
600/2-78-054 3.2.19			03/10/2025		03/10/2025
Handbook 60	01	1160677	02/13/2025	1160677	02/13/2025
EPA 351.2 2	04	1159499	02/06/2025	1159809	02/07/2025
Calculation	04	1159499	02/06/2025	1159809	03/10/2025
SM2540 G-1997 /MOD	01	1159764	02/06/2025	1159764	02/06/2025
EPA 9045D 4	01	1160017	02/10/2025	1160017	02/10/2025

Sample	Sample ID	Taken	Time	Received
2378937	Soil 18-30	02/03/2025	15:30:00	02/05/2025

Bottle 01 Glass Qt w/Teflon lined lid
 Bottle 02 Glass 8 oz w/Teflon lined lid
 Bottle 03 Glass 4 oz w/Teflon lined lid
 Bottle 04 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1159499) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)
 Bottle 05 Prepared Bottle: Special Preparation (Batch 1159705) Volume: 100.00000 mL <== Derived from 03 (10.0 grams)
 Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5 grams)
 Bottle 07 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5 grams)
 Bottle 08 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5.0 grams)
 Bottle 09 Prepared Bottle: MPe Extraction (Batch 1160129) Volume: 15.00000 mL <== Derived from 02 (1.7 grams)
 Bottle 10 Prepared Bottle: SAR extraction

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 353.3			02/14/2025		02/14/2025

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SAMPLE CROSS REFERENCE

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Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Sample	Sample ID	Taken	Time	Received
2378937	Soil 18-30	02/03/2025	15:30:00	02/05/2025

Bottle 01 Glass Qt w/Teflon lined lid

Bottle 02 Glass 8 oz w/Teflon lined lid

Bottle 03 Glass 4 oz w/Teflon lined lid

Bottle 04 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1159499) Volume: 20.00000 mL <== Derived from 03 (1.0 grams)

Bottle 05 Prepared Bottle: Special Preparation (Batch 1159705) Volume: 100.00000 mL <== Derived from 03 (10.0 grams)

Bottle 06 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5 grams)

Bottle 07 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5 grams)

Bottle 08 Prepared Bottle: 2 mL Glass vial (Batch 1159933) Volume: 50.00000 mL <== Derived from 03 (5.0 grams)

Bottle 09 Prepared Bottle: MPe Extraction (Batch 1160129) Volume: 15.00000 mL <== Derived from 02 (1.7 grams)

Bottle 10 Prepared Bottle: SAR extraction

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 9056	06	1159933	02/10/2025	1160428	02/11/2025
EPA 6010B	09	1160129	02/11/2025	1160235	02/11/2025
EPA 6010B	10	1160946	02/14/2025	1160946	02/14/2025
EPA 6010C	09	1160129	02/11/2025	1160235	02/11/2025
EPA 6010C	10	1160946	02/14/2025	1160946	02/14/2025
EPA 6010B	09	1160129	02/11/2025	1160229	02/11/2025
USDA Handbook 60	01	1160928	02/14/2025	1160928	02/14/2025
EPA 9056			03/10/2025		03/10/2025
600/2-78-054 3.2.19			03/10/2025		03/10/2025
Handbook 60	01	1160677	02/13/2025	1160677	02/13/2025
EPA 351.2 2	04	1159499	02/06/2025	1159809	02/07/2025
Calculation	04	1159499	02/06/2025	1159809	03/10/2025
SM2540 G-1997 /MOD	01	1159764	02/06/2025	1159764	02/06/2025
EPA 9045D 4	01	1160017	02/10/2025	1160017	02/10/2025

Sample	Sample ID	Taken	Time	Received
2380050	KCL BLANK	02/03/2025	15:30:00	02/05/2025

Bottle 01 KCl Extract BLANK

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 353.3			02/14/2025		02/14/2025
EPA 9056			03/10/2025		03/10/2025

Email: Kilgore.ProjectManagement@spllabs.com

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TABE-A

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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

RESULTS

Sample Results

2378935 Soil 0-6

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client
 Taken: 02/03/2025

Allaso Ranch
 15:00:00

PO:

Prepared: 02/05/2025 19:31:26 Calculated 02/05/2025 19:31:26 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
SUB Shipped	Verified					

600/2-78-054 3.2.19 Prepared: 02/14/2025 16:12:37 Calculated 02/14/2025 16:12:37 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Sodium Adsorption Ratio	9.76	1				

Calculation Prepared: 1159499 02/06/2025 10:39:08 Calculated 1159918 02/12/2025 13:49:17 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Total Nitrogen (as N)	235.462 *	mg/kg	2.21	E		04
* Dry Weight Basis						

EPA 351.2.2 Prepared: 1159499 02/06/2025 10:39:08 Analyzed 1159918 02/10/2025 07:53:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
Total Kjeldahl Nitrogen	235 *	mg/kg	2.21	P	7727-37-9	04
* Dry Weight Basis						

EPA 353.3 Prepared: 02/14/2025 13:30:00 Analyzed 02/14/2025 13:30:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
Nitrate-nitrogen SUB(KCl Prep)	0.0637	mg/L			PACU	

EPA 6010B Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160229 02/11/2025 13:36:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
Phosphorus, Mehlich-3 extract	<27.9 *	mg/kg	27.9			09
Sulfur, Mehlich-3 extract	<27.9 *	mg/kg	27.9		7704-34-9	09



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Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378935 Soil 0-6

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client
Taken: 02/03/2025

Allaso Ranch
15:00:00

PO:

EPA 6010B Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160235 02/11/2025 13:37:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Calcium, Mehlich-3 extract	331 *	mg/kg	27.9		7440-70-2	09
z Magnesium, Mehlich-3 extract	40.2 *	mg/kg	27.9		7439-95-4	09
z Potassium, Mehlich-3 extract	103 *	mg/kg	27.9		7440-09-7	09

EPA 6010B Prepared: 1160946 02/14/2025 13:38:00 Analyzed 1160946 02/14/2025 13:38:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Calcium (SAR Extracted)	<5.00	mg/L	5.00	D	7440-70-2	10
NELAC Magnesium (SAR Extracted)	<10.0	mg/L	10.0	D	7439-95-4	10

* Dry Weight Basis

EPA 6010C Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160235 02/11/2025 13:37:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Sodium, Mehlich-3 extract	49.0 *	mg/kg	14.0		7440-23-5	09

EPA 6010C Prepared: 1160946 02/14/2025 13:38:00 Analyzed 1160946 02/14/2025 13:38:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Sodium (SAR Extracted)	15.6	mg/L	10.0	D	7440-23-5	10

* Dry Weight Basis

EPA 9045D 4 Prepared: 1160017 02/10/2025 10:40:00 Analyzed 1160017 02/10/2025 10:40:00 JMJ

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC pH Measured in Water/2:1 water:s	6.7@19c	SU			12408-02-5	01

EPA 9056 Prepared: 02/18/2025 07:48:20 Calculated 02/18/2025 07:48:20 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-Nitrogen (KCl Extract)	<1	mg/kg	1		14797-55-8	

EPA 9056 Prepared: 1159933 02/10/2025 10:52:51 Analyzed 1160428 02/11/2025 17:14:00 KRA

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-Nitrogen	0.462 *	mg/kg	0.254		14797-55-8	08

* Dry Weight Basis



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TABE-A

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 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378935 Soil 0-6

Received: 02/05/2025

Solid & Chemical Materials
 Collected by: Client
 Taken: 02/03/2025
 Allaso Ranch
 15:00:00

PO:

Handbook 60 Prepared: 1160677 02/13/2025 12:30:00 Analyzed 1160677 02/13/2025 12:30:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
Saturated Water Percentage	19.6	%	0.100			01

SM2540 G-1997 /MOD Prepared: 1159764 02/06/2025 06:35:00 Analyzed 1159764 02/06/2025 06:35:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Solids for Dry Wt Conversi	89.1	%	0.010			01

USDA Handbook 60 Prepared: 1160928 02/14/2025 08:51:00 Analyzed 1160928 02/14/2025 08:51:00 TRC

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Conductance @ 25C(Sat Paste)	42.0	umhos/cm				01

2378936 Soil 6-18

Received: 02/05/2025

Solid & Chemical Materials
 Collected by: Client
 Taken: 02/03/2025
 Allaso Ranch
 15:15:00

PO:

Prepared: 03/10/2025 08:22:02 Calculated 03/10/2025 08:22:02 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
SUB Shipped	Verified					

600/2-78-054 3.2.19 Prepared: 03/10/2025 08:21:55 Calculated 03/10/2025 08:21:55 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Sodium Adsorption Ratio	0.0471	1				

Calculation Prepared: 1159499 02/06/2025 10:39:08 Calculated 1159809 03/10/2025 08:21:55 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Nitrogen (as N)	132.331 *	mg/kg	1.07			04

* Dry Weight Basis



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TABE-A

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Dennis
2302 PR 7850
Hawkins, TX 75765

Project
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Printed: 03/10/2025

2378936 Soil 6-18

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client
Taken: 02/03/2025

Allaso Ranch
15:15:00

PO:

EPA 351.2 2 Prepared: 1159499 02/06/2025 10:39:08 Analyzed 1159809 02/07/2025 06:34:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Kjeldahl Nitrogen	132 *	mg/kg	1.07		7727-37-9	04
* Dry Weight Basis						

EPA 353.3 Prepared: 02/14/2025 13:31:00 Analyzed 02/14/2025 13:31:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-nitrogen SUB(KCl Prep)	<0.0500	mg/L	0.0500		PACU	

EPA 6010B Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160229 02/11/2025 13:49:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Phosphorus, Mehlich-3 extract	<26.1 *	mg/kg	26.1			07
z Sulfur, Mehlich-3 extract	<26.1 *	mg/kg	26.1		7704-34-9	07

EPA 6010B Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160235 02/11/2025 13:50:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Calcium, Mehlich-3 extract	296 *	mg/kg	26.1		7440-70-2	07
z Magnesium, Mehlich-3 extract	37.8 *	mg/kg	26.1		7439-95-4	07
z Potassium, Mehlich-3 extract	147 *	mg/kg	26.1		7440-09-7	07

EPA 6010B Prepared: 1160946 02/14/2025 13:45:00 Analyzed 1160946 02/14/2025 13:45:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Calcium (SAR Extracted)	<5.00	mg/L	5.00		7440-70-2	08
NELAC Magnesium (SAR Extracted)	<10.0	mg/L	10.0		7439-95-4	08
* Dry Weight Basis						

EPA 6010C Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160235 02/11/2025 13:50:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Sodium, Mehlich-3 extract	40.7 *	mg/kg	13.0		7440-23-5	07

EPA 6010C Prepared: 1160946 02/14/2025 13:45:00 Analyzed 1160946 02/14/2025 13:45:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Sodium (SAR Extracted)	<10.0	mg/L	10.0		7440-23-5	08



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 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378936 Soil 6-18

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client

Allaso Ranch

PO:

Taken: 02/03/2025

15:15:00

* Dry Weight Basis

EPA 9045D 4 Prepared: 1160017 02/10/2025 10:40:00 Analyzed 1160017 02/10/2025 10:40:00 JMJ

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC pH Measured in Water/2:1 water:s	6.9@19c	SU			12408-02-5	01

EPA 9056 Prepared: 03/10/2025 08:21:55 Calculated 03/10/2025 08:21:55 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-Nitrogen (KCl Extract)	<1.10 *	mg/kg	1.10		14797-55-8	

EPA 9056 Prepared: 1159933 02/10/2025 10:52:51 Analyzed 1160428 02/11/2025 17:39:00 KRA

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-Nitrogen	0.331 *	mg/kg	0.248		14797-55-8	06

* Dry Weight Basis

Handbook 60 Prepared: 1160677 02/13/2025 12:30:00 Analyzed 1160677 02/13/2025 12:30:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
Saturated Water Percentage	16.9	%	0.100			01

SM2540 G-1997 /MOD Prepared: 1159764 02/06/2025 06:35:00 Analyzed 1159764 02/06/2025 06:35:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Solids for Dry Wt Conversi	91.2	%	0.010			01

USDA Handbook 60 Prepared: 1160928 02/14/2025 08:51:00 Analyzed 1160928 02/14/2025 08:51:00 TRC

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Conductance @ 25C(Sat Paste)	40.0	umhos/cm				01

2378937 Soil 18-30

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client

Allaso Ranch

PO:

Taken: 02/03/2025

15:30:00



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Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378937 Soil 18-30

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client
Taken: 02/03/2025

Allaso Ranch
15:30:00

PO:

		Prepared:	03/10/2025	08:22:02	Calculated	03/10/2025	08:22:02	CAL
z	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	SUB Shipped	Verified						
600/2-78-054 3.2.19		Prepared:	03/10/2025	08:21:55	Calculated	03/10/2025	08:21:55	CAL
	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	Sodium Adsorption Ratio	0.0471	1					
Calculation		Prepared:	1159499	02/06/2025	10:39:08	Calculated	1159809	03/10/2025
NELAC	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	Total Nitrogen (as N)	161 *	mg/kg	1.12			04	
* Dry Weight Basis								
EPA 351.2 2		Prepared:	1159499	02/06/2025	10:39:08	Analyzed	1159809	02/07/2025
NELAC	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	Total Kjeldahl Nitrogen	161 *	mg/kg	1.12		7727-37-9	04	
* Dry Weight Basis								
EPA 353.3		Prepared:	02/14/2025	13:32:00	Analyzed	02/14/2025	13:32:00	SUB
NELAC	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	Nitrate-nitrogen SUB(KCl Prep)	<0.0500	mg/L	0.0500		PACU		
EPA 6010B		Prepared:	1160129	02/11/2025	10:00:00	Analyzed	1160229	02/11/2025
z	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	Phosphorus, Mehlich-3 extract	<25.1 *	mg/kg	25.1			09	
z	Sulfur,Mehlich-3 extract	<25.1 *	mg/kg	25.1		7704-34-9	09	
EPA 6010B		Prepared:	1160129	02/11/2025	10:00:00	Analyzed	1160235	02/11/2025
z	Parameter	Results	Units	RL	Flags	CAS	Bottle	
	Calcium, Mehlich-3 extract	426 *	mg/kg	25.1		7440-70-2	09	
z	Magnesium, Mehlich-3 extract	94.4 *	mg/kg	25.1		7439-95-4	09	



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 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378937 Soil 18-30

Received: 02/05/2025

Solid & Chemical Materials

Collected by: Client
 Taken: 02/03/2025

Allaso Ranch
 15:30:00

PO:

EPA 6010B Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160235 02/11/2025 13:54:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
Potassium, Mehlich-3 extract	113 *	mg/kg	25.1		7440-09-7	09

EPA 6010B Prepared: 1160946 02/14/2025 13:48:00 Analyzed 1160946 02/14/2025 13:48:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
Calcium (SAR Extracted)	<5.00	mg/L	5.00		7440-70-2	10
Magnesium (SAR Extracted)	<10.0	mg/L	10.0		7439-95-4	10

* Dry Weight Basis

EPA 6010C Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160235 02/11/2025 13:54:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
Sodium, Mehlich-3 extract	35.3 *	mg/kg	12.6		7440-23-5	09

EPA 6010C Prepared: 1160946 02/14/2025 13:48:00 Analyzed 1160946 02/14/2025 13:48:00 CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle
Sodium (SAR Extracted)	<10.0	mg/L	10.0		7440-23-5	10

* Dry Weight Basis

EPA 9045D 4 Prepared: 1160017 02/10/2025 10:40:00 Analyzed 1160017 02/10/2025 10:40:00 JMJ

Parameter	Results	Units	RL	Flags	CAS	Bottle
pH Measured in Water/2:1 water:s	6.7@19c	SU			12408-02-5	01

EPA 9056 Prepared: 03/10/2025 08:21:55 Calculated 03/10/2025 08:21:55 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Nitrate-Nitrogen (KCl Extract)	<1.12 *	mg/kg	1.12		14797-55-8	

EPA 9056 Prepared: 1159933 02/10/2025 10:52:51 Analyzed 1160428 02/11/2025 18:03:00 KRA

Parameter	Results	Units	RL	Flags	CAS	Bottle
Nitrate-Nitrogen	<0.253 *	mg/kg	0.253		14797-55-8	06

* Dry Weight Basis



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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378937 Soil 18-30

Received: 02/05/2025

Solid & Chemical Materials
 Collected by: Client
 Taken: 02/03/2025
 Allaso Ranch
 15:30:00

PO:

Handbook 60 Prepared: 1160677 02/13/2025 12:30:00 Analyzed 1160677 02/13/2025 12:30:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
Saturated Water Percentage	33.5	%	0.100			01

SM2540 G-1997 /MOD Prepared: 1159764 02/06/2025 06:35:00 Analyzed 1159764 02/06/2025 06:35:00 BEK

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Solids for Dry Wt Conversi	89.2	%	0.010			01

USDA Handbook 60 Prepared: 1160928 02/14/2025 08:51:00 Analyzed 1160928 02/14/2025 08:51:00 TRC

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Conductance @ 25C(Sat Paste)	43.1	umhos/cm				01

2380050 KCL BLANK

Received: 02/05/2025

Solid & Chemical Materials
 Collected by: Client
 Taken: 02/03/2025
 Allaso Ranch
 15:30:00

PO:

EPA 353.3 Prepared: 02/14/2025 13:33:00 Analyzed 02/14/2025 13:33:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-nitrogen SUB(KCl Prep)	<0.0500	mg/L	0.0500		PACU	

EPA 9056 Prepared: 03/10/2025 08:21:55 Calculated 03/10/2025 08:21:55 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Nitrate-Nitrogen (KCl Extract)	<1	mg/kg	1		14797-55-8	

* Dry Weight Basis

Sample Preparation



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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378935 Soil 0-6

Received: 02/05/2025

02/03/2025

		Prepared:	02/05/2025	20:01:15	Calculated	02/05/2025	20:01:15	CAL		
z	Enviro Fee (per Sampling Group)	Verified								
	600/2-78-054 3.2.19	Prepared:	1160929	02/14/2025	09:26:00	Analyzed	1160929	02/14/2025	09:26:00	NCB
	Sodium Adsorption Ratio Extract	prepared/prepar	grams							01
	Black 84.2	Prepared:	1159705	02/07/2025	06:45:00	Analyzed	1159705	02/07/2025	06:45:00	AMB
z	KCl Extraction	100/10.00	grams							03
	Calculation	Prepared:		02/18/2025	07:48:31	Calculated		02/18/2025	07:48:31	CAL
	As Received to Dry Weight Basis	Calculated								
	EPA 351.2 2	Prepared:	1159499	02/06/2025	10:39:08	Analyzed	1159499	02/06/2025	10:39:08	MEG
NELAC	TKN Block Digestion	20/1.0143	grams							03
	EPA 6010B	Prepared:		02/14/2025	16:12:37	Calculated		02/14/2025	16:12:37	CAL
NELAC	Calcium (SAR) meq/L calculation	<0.250	meq/L	0.250				7440-70-2		
NELAC	Magnesium (SAR) meq/L calculatio	<0.833	meq/L	0.833				7439-95-4		
	EPA 6010C	Prepared:		02/14/2025	16:12:37	Calculated		02/14/2025	16:12:37	CAL
NELAC	Sodium (SAR) meq/L calculation	0.679	meq/L	0.435				7440-23-5		



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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378935 Soil 0-6

Received: 02/05/2025

02/03/2025

EPA 9056 Prepared: 1159933 02/10/2025 10:52:51 Analyzed 1159933 02/10/2025 10:52:51 PEV

Water Extract-Ion Chromatography 50/4.99 grams 03

Mehlich-3 Extraction Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160129 02/11/2025 10:00:00 TES

Mehlich-3 Extraction 15/1.5059 grams 02

SM 2540 G-1997 Prepared: 1159437 02/06/2025 06:35:00 Analyzed 1159437 02/06/2025 06:35:00 BEK

NELAC Total Solids Start Code Started

2378936 Soil 6-18

Received: 02/05/2025

02/03/2025

600/2-78-054 3.2.19 Prepared: 1160929 02/14/2025 09:26:00 Analyzed 1160929 02/14/2025 09:26:00 NCB

Sodium Adsorption Ratio Extract prepared/prepar grams 01

Black 84.2 Prepared: 1159705 02/07/2025 06:45:00 Analyzed 1159705 02/07/2025 06:45:00 AMB

KCl Extraction 100/10.01 grams 03

Calculation Prepared: 02/18/2025 07:48:31 Calculated 02/18/2025 07:48:31 CAL

As Received to Dry Weight Basis Calculated



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Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378936 Soil 6-18

Received: 02/05/2025

02/03/2025

EPA 351.2 2 Prepared: 1159499 02/06/2025 10:39:08 Analyzed 1159499 02/06/2025 10:39:08 MEG

NELAC TKN Block Digestion 20/1.0288 grams 03

EPA 6010B Prepared: 03/10/2025 08:21:55 Calculated 03/10/2025 08:21:55 CAL

NELAC Calcium (SAR) meq/L calculation <0.250 meq/L 0.250 7440-70-2
NELAC Magnesium (SAR) meq/L calculation <0.833 meq/L 0.833 7439-95-4

EPA 6010C Prepared: 03/10/2025 08:21:55 Calculated 03/10/2025 08:21:55 CAL

NELAC Sodium (SAR) meq/L calculation <0.435 meq/L 0.435 7440-23-5

EPA 9056 Prepared: 1159933 02/10/2025 10:52:51 Analyzed 1159933 02/10/2025 10:52:51 PEV

Water Extract-Ion Chromatography 50/5.0 grams 03

Mehlich-3 Extraction Prepared: 1160129 02/11/2025 10:00:00 Analyzed 1160129 02/11/2025 10:00:00 TES

z Mehlich-3 Extraction 15/1.5786 grams 02

SM 2540 G-1997 Prepared: 1159437 02/06/2025 06:35:00 Analyzed 1159437 02/06/2025 06:35:00 BEK

NELAC Total Solids Start Code Started

2378937 Soil 18-30

Received: 02/05/2025

02/03/2025



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TABE-A

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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378937 Soil 18-30

Received: 02/05/2025

02/03/2025

600/2-78-054 3.2.19		Prepared:	1160929	02/14/2025	09:26:00	Analyzed	1160929	02/14/2025	09:26:00	NCB
Sodium Adsorption Ratio Extract		prepared/prepar	grams							01
Black 84.2		Prepared:	1159705	02/07/2025	06:45:00	Analyzed	1159705	02/07/2025	06:45:00	AMB
KCl Extraction		100/10.02	grams							03
Calculation		Prepared:		02/18/2025	07:48:31	Calculated		02/18/2025	07:48:31	CAL
As Received to Dry Weight Basis		Calculated								
EPA 351.2 2		Prepared:	1159499	02/06/2025	10:39:08	Analyzed	1159499	02/06/2025	10:39:08	MEG
NELAC	TKN Block Digestion	20/1.0019	grams							03
EPA 6010B		Prepared:		03/10/2025	08:21:55	Calculated		03/10/2025	08:21:55	CAL
NELAC	Calcium (SAR) meq/L calculation	<0.250	meq/L	0.250				7440-70-2		
NELAC	Magnesium (SAR) meq/L calculation	<0.833	meq/L	0.833				7439-95-4		
EPA 6010C		Prepared:		03/10/2025	08:21:55	Calculated		03/10/2025	08:21:55	CAL
NELAC	Sodium (SAR) meq/L calculation	<0.435	meq/L	0.435				7440-23-5		
EPA 9056		Prepared:	1159933	02/10/2025	10:52:51	Analyzed	1159933	02/10/2025	10:52:51	PEV
Water Extract-Ion Chromatography		50/5.0	grams							03



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TABE-A

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Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Project
1135104

Printed: 03/10/2025

2378937 Soil 18-30

Received: 02/05/2025

02/03/2025

Mehlich-3 Extraction	Prepared: 1160129	02/11/2025	10:00:00	Analyzed 1160129	02/11/2025	10:00:00	TES
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z	Mehlich-3 Extraction	15/1.6729	grams	02
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SM 2540 G-1997	Prepared: 1159437	02/06/2025	06:35:00	Analyzed 1159437	02/06/2025	06:35:00	BEK
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NELAC	Total Solids Start Code	Started
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Qualifiers:

D - Duplicate RPD was higher than expected E - Estimated Value
 P - Spike recovery outside control limits due to matrix effects.

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

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

(N)ELAC - Covered in our NELAC scope of accreditation
 z -- Not covered by our NELAC scope of accreditation

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

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

Bill Peery

Bill Peery, MS, VP Technical Services



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QUALITY CONTROL

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed 03/10/2025

Analytical Set **1159809**

EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1159499	ND	0.378	1.00	mg/kg	127289882

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.24	5.00	mg/kg	105	90.0 - 110	127289876
Total Kjeldahl Nitrogen	5.32	5.00	mg/kg	106	90.0 - 110	127289877
Total Kjeldahl Nitrogen	5.37	5.00	mg/kg	107	90.0 - 110	127289878
Total Kjeldahl Nitrogen	5.28	5.00	mg/kg	106	90.0 - 110	127289879
Total Kjeldahl Nitrogen	5.27	5.00	mg/kg	105	90.0 - 110	127289880
Total Kjeldahl Nitrogen	5.28	5.00	mg/kg	106	90.0 - 110	127289881
Total Kjeldahl Nitrogen	5.31	5.00	mg/kg	106	90.0 - 110	127289886
Total Kjeldahl Nitrogen	5.36	5.00	mg/kg	107	90.0 - 110	127289891

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2378935	170	196	mg/kg	14.2	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.34	5.00	mg/kg	107	90.0 - 110	127289875

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1159499	95.2	95.1	100	90.0 - 110	95.2	95.1	mg/kg	0.105	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2378935	210	196	97.5	mg/kg	14.4	80.0 - 120	127289888

Analytical Set **1159918**

EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1159499	ND	0.378	1.00	mg/kg	127292394

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.19	5.00	mg/kg	104	90.0 - 110	127292393
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	127292402
Total Kjeldahl Nitrogen	5.29	5.00	mg/kg	106	90.0 - 110	127292410
Total Kjeldahl Nitrogen	5.30	5.00	mg/kg	106	90.0 - 110	127292411
Total Kjeldahl Nitrogen	5.28	5.00	mg/kg	106	90.0 - 110	127292412

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.48	5.00	mg/kg	110	90.0 - 110	127292392

Email: Kilgore.ProjectManagement@spllabs.com



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QUALITY CONTROL



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed 03/10/2025

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1159499	95.4	95.0	100	90.0 - 110	95.4	95.0	mg/kg	0.420	20.0

Analytical Set **1159764** **SM2540 G-1997 /MOD**

ControlBlk										
Parameter	PrepSet	Reading	MDL	MQL	Units	File				
Total Solids for Dry Wt Conversi	1159764	0.0001			grams	127288919				

Duplicate										
Parameter	Sample	Result	Unknown	Unit			RPD	Limit%		
Total Solids for Dry Wt Conversi	2378168	99.7	99.6	%			0.100	20.0		
Total Solids for Dry Wt Conversi	2378674	85.5	84.9	%			0.704	20.0		

Analytical Set **1160677** **Handbook 60**

ControlBlk										
Parameter	PrepSet	Reading	MDL	MQL	Units	File				
Saturated Water Percentage	1160677	0.0002			grams	127308484				

Duplicate										
Parameter	Sample	Result	Unknown	Unit			RPD	Limit%		
Saturated Water Percentage	2378935	20.0	19.6	%			2.02	20.0		

Analytical Set **1160428** **EPA 9056**

Blank										
Parameter	PrepSet	Reading	MDL	MQL	Units	File				
Nitrate-Nitrogen	1159933	ND	0.0185	0.0226	mg/kg	127303053				

CCV										
Parameter	Reading	Known	Units	Recover%	Limits%	File				
Nitrate-Nitrogen	2.26	2.26	mg/kg	100	90.0 - 110	127303052				
Nitrate-Nitrogen	2.26	2.26	mg/kg	100	90.0 - 110	127303068				
Nitrate-Nitrogen	2.27	2.26	mg/kg	100	90.0 - 110	127303077				

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen	1159933	1.17	1.15	1.13	75.0 - 120	104	102	mg/kg	1.72	20.0

MSD											
<i>Parameter</i>	<i>Sample</i>	<i>MS</i>	<i>MSD</i>	<i>UNK</i>	<i>Known</i>	<i>Limits</i>	<i>MS%</i>	<i>MSD%</i>	<i>Units</i>	<i>RPD</i>	<i>Limit%</i>
Nitrate-Nitrogen	2378937	2.61	2.79	0.219	2.26	80.0 - 120	106	114	mg/kg	7.26	20.0

Analytical Set **1160229** **EPA 6010B**

Blank										
Parameter	PrepSet	Reading	MDL	MQL	Units	File				
Phosphorus, Mehlich-3 extract	1160129	ND	0.100	0.100	mg/kg	127299573				
Sulfur,Mehlich-3 extract	1160129	ND	0.102	0.500	mg/kg	127299573				

Email: Kilgore.ProjectManagement@spllabs.com



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed 03/10/2025

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus, Mehlich-3 extract	1.03	1.00	mg/kg	103	90.0 - 110	127299572
Phosphorus, Mehlich-3 extract	1.03	1.00	mg/kg	103	90.0 - 110	127299579
Phosphorus, Mehlich-3 extract	1.05	1.00	mg/kg	105	90.0 - 110	127299585
Sulfur, Mehlich-3 extract	30.5	30.0	mg/kg	102	90.0 - 110	127299572
Sulfur, Mehlich-3 extract	30.4	30.0	mg/kg	101	90.0 - 110	127299579
Sulfur, Mehlich-3 extract	30.5	30.0	mg/kg	102	90.0 - 110	127299585

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Phosphorus, Mehlich-3 extract	2377596	32.1	22.9	mg/kg	33.5	*	20.0
Sulfur, Mehlich-3 extract	2377596	101	120	mg/kg	17.2		20.0

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus, Mehlich-3 extract	25.5	25.0	mg/kg	102	95.0 - 105	127299570
Sulfur, Mehlich-3 extract	40.9	40.0	mg/kg	102	95.0 - 105	127299570

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus, Mehlich-3 extract	1.02	1.00	mg/kg	102	90.0 - 110	127299571
Sulfur, Mehlich-3 extract	30.6	30.0	mg/kg	102	90.0 - 110	127299571

Analytical Set

1160235

EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Calcium, Mehlich-3 extract	1160129	ND	0.284	0.500	mg/kg	127299759
Magnesium, Mehlich-3 extract	1160129	ND	0.284	0.500	mg/kg	127299759
Potassium, Mehlich-3 extract	1160129	ND	0.284	0.500	mg/kg	127299759
Sodium, Mehlich-3 extract	1160129	ND	0.00912	0.250	mg/kg	127299759

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium, Mehlich-3 extract	24.6	25.0	mg/kg	98.4	90.0 - 110	127299757
Calcium, Mehlich-3 extract	25.9	25.0	mg/kg	104	90.0 - 110	127299758
Calcium, Mehlich-3 extract	25.4	25.0	mg/kg	102	90.0 - 110	127299765
Calcium, Mehlich-3 extract	26.3	25.0	mg/kg	105	90.0 - 110	127299771
Calcium, Mehlich-3 extract	26.0	25.0	mg/kg	104	90.0 - 110	127299776
Magnesium, Mehlich-3 extract	24.5	25.0	mg/kg	98.0	90.0 - 110	127299757
Magnesium, Mehlich-3 extract	25.8	25.0	mg/kg	103	90.0 - 110	127299758
Magnesium, Mehlich-3 extract	25.1	25.0	mg/kg	100	90.0 - 110	127299765
Magnesium, Mehlich-3 extract	26.1	25.0	mg/kg	104	90.0 - 110	127299771
Potassium, Mehlich-3 extract	26.1	25.0	mg/kg	104	90.0 - 110	127299757
Potassium, Mehlich-3 extract	27.4	25.0	mg/kg	110	90.0 - 110	127299758
Potassium, Mehlich-3 extract	25.7	25.0	mg/kg	103	90.0 - 110	127299765
Potassium, Mehlich-3 extract	27.4	25.0	mg/kg	110	90.0 - 110	127299771
Sodium, Mehlich-3 extract	23.9	25.0	mg/kg	95.6	90.0 - 110	127299757

Email: Kilgore.ProjectManagement@spllabs.com



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed 03/10/2025

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Sodium, Mehlich-3 extract	25.4	25.0	mg/kg	102	90.0 - 110	127299758
Sodium, Mehlich-3 extract	24.8	25.0	mg/kg	99.2	90.0 - 110	127299765
Sodium, Mehlich-3 extract	26.0	25.0	mg/kg	104	90.0 - 110	127299771

Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Calcium, Mehlich-3 extract	2377596	6220	7450	mg/kg	18.0	20.0
Magnesium, Mehlich-3 extract	2377596	68.6	76.5	mg/kg	10.9	20.0
Potassium, Mehlich-3 extract	2377596	315	382	mg/kg	19.2	20.0
Sodium, Mehlich-3 extract	2377596	9.61	10.1	mg/kg	4.97	20.0

ICL

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Calcium, Mehlich-3 extract	50.6	50.0	mg/kg	101	95.0 - 105	127299751
Magnesium, Mehlich-3 extract	50.5	50.0	mg/kg	101	95.0 - 105	127299751
Potassium, Mehlich-3 extract	50.8	50.0	mg/kg	102	95.0 - 105	127299751
Sodium, Mehlich-3 extract	50.8	50.0	mg/kg	102	95.0 - 105	127299751

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Calcium, Mehlich-3 extract	26.0	25.0	mg/kg	104	90.0 - 110	127299755
Magnesium, Mehlich-3 extract	25.4	25.0	mg/kg	102	90.0 - 110	127299755
Potassium, Mehlich-3 extract	27.1	25.0	mg/kg	108	90.0 - 110	127299755
Sodium, Mehlich-3 extract	25.1	25.0	mg/kg	100	90.0 - 110	127299755

LDR

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Calcium, Mehlich-3 extract	97.6	100	mg/kg	97.6	90.0 - 110	127299752
Calcium, Mehlich-3 extract	368	400	mg/kg	92.0	90.0 - 110	127299775
Magnesium, Mehlich-3 extract	104	100	mg/kg	104	90.0 - 110	127299752
Potassium, Mehlich-3 extract	98.8	100	mg/kg	98.8	90.0 - 110	127299752
Sodium, Mehlich-3 extract	108	100	mg/kg	108	90.0 - 110	127299752

Analytical Set

1160946

EPA 6010C

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Calcium (SAR Extracted)	1160946	ND	0.0266	0.250	mg/L	127313059
Magnesium (SAR Extracted)	1160946	ND	0.100	0.500	mg/L	127313059
Sodium (SAR Extracted)	1160946	ND	0.0753	0.500	mg/L	127313059

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Calcium (SAR Extracted)	25.7	25.0	mg/L	103	90.0 - 110	127313057
Calcium (SAR Extracted)	24.7	25.0	mg/L	98.8	90.0 - 110	127313058
Calcium (SAR Extracted)	25.0	25.0	mg/L	100	90.0 - 110	127313064
Magnesium (SAR Extracted)	25.8	25.0	mg/L	103	90.0 - 110	127313057

Email: Kilgore.ProjectManagement@spllabs.com



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed 03/10/2025

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Magnesium (SAR Extracted)	24.6	25.0	mg/L	98.4	90.0 - 110	127313058
Magnesium (SAR Extracted)	24.9	25.0	mg/L	99.6	90.0 - 110	127313064
Sodium (SAR Extracted)	24.9	25.0	mg/L	99.6	90.0 - 110	127313057
Sodium (SAR Extracted)	24.4	25.0	mg/L	97.6	90.0 - 110	127313058
Sodium (SAR Extracted)	24.3	25.0	mg/L	97.2	90.0 - 110	127313064

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Calcium (SAR Extracted)	2378935	0.215	1.22	mg/L	140 *	20.0
Magnesium (SAR Extracted)	2378935	0.831	1.28	mg/L	42.5 *	20.0
Sodium (SAR Extracted)	2378935	12.6	15.6	mg/L	21.3 *	20.0

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium (SAR Extracted)	49.9	50.0	mg/L	99.8	95.0 - 105	127313051
Magnesium (SAR Extracted)	49.9	50.0	mg/L	99.8	95.0 - 105	127313051
Sodium (SAR Extracted)	50.4	50.0	mg/L	101	95.0 - 105	127313051

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium (SAR Extracted)	25.5	25.0	mg/L	102	90.0 - 110	127313055
Magnesium (SAR Extracted)	25.1	25.0	mg/L	100	90.0 - 110	127313055
Sodium (SAR Extracted)	24.7	25.0	mg/L	98.8	90.0 - 110	127313055

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Calcium (SAR Extracted)	95.4	100	mg/L	95.4	90.0 - 110	127313052
Magnesium (SAR Extracted)	102	100	mg/L	102	90.0 - 110	127313052
Sodium (SAR Extracted)	106	100	mg/L	106	90.0 - 110	127313052

Analytical Set 1160017

EPA 9045D 4

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
pH Measured in Water/2:1 water:s	2378935	6.70	6.70	SU	0	20.0

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
pH Measured in Water/2:1 water:s	1160017	6.01	6.00	SU	100	90.0 - 110	127295026
pH Measured in Water/2:1 water:s	1160017	8.02	8.00	SU	100	90.0 - 110	127295027
pH Measured in Water/2:1 water:s	1160017	6.00	6.00	SU	100	90.0 - 110	127295032
pH Measured in Water/2:1 water:s	1160017	8.01	8.00	SU	100	90.0 - 110	127295033

Analytical Set 1160928

USDA Handbook 60

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Conductance @ 25C(Sat Paste)	1160928	0.508			umhos/cm	127312780

Email: Kilgore.ProjectManagement@spllabs.com



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QUALITY CONTROL



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1135104

Printed 03/10/2025

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Conductance @ 25C(Sat Paste)	2378935	37.6	42.0	umhos/cm	11.1	20.0

ICV						
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Conductance @ 25C(Sat Paste)	12.5	12.9	umhos/cm	96.9	90.0 - 110	127312783

Standard							
<i><u>Parameter</u></i>	<i><u>Sample</u></i>	<i><u>Reading</u></i>	<i><u>Known</u></i>	<i><u>Units</u></i>	<i><u>Recover%</u></i>	<i><u>Limits%</u></i>	<i><u>File</u></i>
Conductance @ 25C(Sat Paste)	1160928	1420	1410	umhos/cm	101	90.0 - 110	127312781
Conductance @ 25C(Sat Paste)	1160928	99.4	100	umhos/cm	99.4	90.0 - 110	127312782
Conductance @ 25C(Sat Paste)	1160928	1420	1410	umhos/cm	101	90.0 - 110	127312788

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

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

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); LDR - Linear Dynamic Range Standard; MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.)

Email: Kilgore.ProjectManagement@spllabs.com



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1135104 CoC Print Group 001 of 002

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Page 1 of 2

CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE -A
106

Lab Number 2318935

PO Number _____

Phone _____ 903/574-0627

Soil 0-6

☐ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start

Date: 2-3-25 Time: 3:00 pmSampler Printed Name: Dennis WoodrellSampler Affiliation: Allaso RanchSampler Signature: [Signature]
☐ Samples Radioactive?

☐ Samples Contains Dioxin?

☐ Samples Biological Hazard?

1 Glass Qt w/Teflon lined lid

	*Can	Calcium, Mehlich-3 extract	EPA 6010B CAS:7440-70-2 (180 days)
NELAC	*Caq	Calcium (SAR) meq/L calculation	EPA 6010B CAS:7440-70-2 (180 days)
NELAC	*Cas	Calcium (SAR Extracted)	EPA 6010B CAS:7440-70-2 (180 days)
	*Kn	Potassium, Mehlich-3 extract	EPA 6010B CAS:7440-09-7 (180 days)
	*Mgn	Magnesium, Mehlich-3 extract	EPA 6010B CAS:7439-95-4 (180 days)
NELAC	*Mgq	Magnesium (SAR) meq/L calculation	EPA 6010B CAS:7439-95-4 (180 days)
NELAC	*Mgs	Magnesium (SAR Extracted)	EPA 6010B CAS:7439-95-4 (180 days)
	*MPe	Mehlich-3 Extraction	Mehlich-3 Extraction (180 days)
	*Nan	Sodium, Mehlich-3 extract	EPA 6010C CAS:7440-23-5 (180 days)
NELAC	*Naq	Sodium (SAR) meq/L calculation	EPA 6010C CAS:7440-23-5 (180 days)
NELAC	*Nas	Sodium (SAR Extracted)	EPA 6010C CAS:7440-23-5 (180 days)
	*Pm	Phosphorus, Mehlich-3 extract	EPA 6010B (180 days)
	*SAR	Sodium Adsorption Ratio Extract	600/2-78-054 3.2.19 (180 days)
	*Sm	Sulfur, Mehlich-3 extract	EPA 6010B CAS:7704-34-9 (180 days)
	SAR	Sodium Adsorption Ratio	600/2-78-054 3.2.19
	SWP	Saturated Water Percentage	Handbook 60



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Page 2 of 2

CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE -A
106

1 Glass 8 oz w/Teflon lined lid

NELAC Subcontract	IN3K	Nitrate-nitrogen SUB(KCl Prep)	EPA 353.3 CAS:PACU (28.0 days)
NELAC	EC60	Conductance @ 25C(Sat Paste)	USDA Handbook 60

1 Glass 4 oz w/Teflon lined lid

NELAC	IN3S	Nitrate-Nitrogen	EPA 9056 CAS:14797-55-8 (28.0 days)
	*KCL	KCl Extraction	Black 84.2 (180 days)
NELAC	pHLZ	pH Measured in Water/2:1 water:s	EPA 9045D 4 CAS:12408-02-5 (180 days)
NELAC	TKN	Total Kjeldahl Nitrogen	EPA 351.2.2 CAS:7727-37-9 (28.0 days)
NELAC	TS%	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 Z -- No bottle required

	ARDW	As Received to Dry Weight Basis	Calculation
NELAC	TNit	Total Nitrogen (as N)	Calculation (28.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
2-5-25	10:07	Printed Name <u>Dennis Worrell</u> Affiliation	Printed Name <u>Danny Dagnel</u> Affiliation <u>SPL</u>
		Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
2/5/25	1500	Printed Name <u>Danny Dagnel</u> Affiliation <u>SPL</u>	Printed Name <u>Ashley Vasquez - SPL, Inc.</u> Affiliation
		Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
		Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature
		Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature

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

If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or Z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP # 00323.

Comments



1135104 CoC Print Group 001 of 002

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CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE -A
107

Lab Number 237893Le
PO Number _____
Phone 903/574-0627

Soil 6-18

☐ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start

Date: 2-3-25 Time: 3:15pm

Sampler Printed Name: Oscar's Worrell

Sampler Affiliation: Allaso Ranch

Sampler Signature: [Signature]

Samples Radioactive? ☐

Samples Contains Dioxin? ☐

Samples Biological Hazard? ☐

1 Glass Qt w/Teflon lined lid

	*Ca	Calcium, Mehlich-3 extract	EPA 6010B CAS:7440-70-2 (180 days)
NELAC	*Caq	Calcium (SAR) meq/L calculation	EPA 6010B CAS:7440-70-2 (180 days)
NELAC	*Cas	Calcium (SAR Extracted)	EPA 6010B CAS:7440-70-2 (180 days)
	*Kn	Potassium, Mehlich-3 extract	EPA 6010B CAS:7440-09-7 (180 days)
	*Mgn	Magnesium, Mehlich-3 extract	EPA 6010B CAS:7439-95-4 (180 days)
NELAC	*Mgq	Magnesium (SAR) meq/L calculation	EPA 6010B CAS:7439-95-4 (180 days)
NELAC	*Mgs	Magnesium (SAR Extracted)	EPA 6010B CAS:7439-95-4 (180 days)
	*Mpe	Mehlich-3 Extraction	Mehlich-3 Extraction (180 days)
	*Nan	Sodium, Mehlich-3 extract	EPA 6010C CAS:7440-23-5 (180 days)
NELAC	*Naq	Sodium (SAR) meq/L calculation	EPA 6010C CAS:7440-23-5 (180 days)
NELAC	*Nas	Sodium (SAR Extracted)	EPA 6010C CAS:7440-23-5 (180 days)
	*Pm	Phosphorus, Mehlich-3 extract	EPA 6010B (180 days)
	*SAR	Sodium Adsorption Ratio Extract	600/2-78-054 3.2.19 (180 days)
	*Sm	Sulfur, Mehlich-3 extract	EPA 6010B CAS:7704-34-9 (180 days)
	SAR	Sodium Adsorption Ratio	600/2-78-054 3.2.19
	SWP	Saturated Water Percentage	Handbook 60



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Page 2 of 2

CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE -A
107

1 Glass 8 oz w/Teflon lined lid

NELAC Subcontract	IN3K	Nitrate-nitrogen SUB(KCl Prep)	EPA 353.3 CAS:PACU (28.0 days)
NELAC	EC60	Conductance @ 25C(Sat Paste)	USDA Handbook 60

1 Glass 4 oz w/Teflon lined lid

NELAC	IN3S	Nitrate-Nitrogen	EPA 9056 CAS:14797-55-8 (28.0 days)
	*KCL	KCl Extraction	Black 84.2 (180 days)
NELAC	pHLZ	pH Measured in Water/2:1 water:s	EPA 9045D 4 CAS:12408-02-5 (180 days)
NELAC	TKN	Total Kjeldahl Nitrogen	EPA 351.2.2 CAS:7727-37-9 (28.0 days)
NELAC	TS%	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 Z -- No bottle required

	ARDW	As Received to Dry Weight Basis	Calculation
NELAC	TNit	Total Nitrogen (as N)	Calculation (28.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
2-5-25	10107	Printed Name <u>Dennis Worrell</u> Affiliation	Printed Name <u>Barry Dagnel</u> Affiliation <u>SPL</u>
		Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
2/5/25	1500	Printed Name <u>Barry Dagnel</u> Affiliation <u>SPL</u>	Printed Name <u>Ashley Vasquez</u> Affiliation <u>SPL, Inc</u>
		Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
		Printed Name _____ Affiliation	Printed Name _____ Affiliation
		Signature _____	Signature _____
		Printed Name _____ Affiliation	Printed Name _____ Affiliation
		Signature _____	Signature _____

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

If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or Z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP # 100323.

Comments



1135104 CoC Print Group 001 of 002

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CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE -A
108

Lab Number 2378937

PO Number _____

Phone 903/574-0627

Soil 18-30

☐ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start

Date: 2-3-25 Time: 3:50pm

Sampler Printed Name: Dennis Worrell

Sampler Affiliation: Allaso Ranch

Sampler Signature: Dennis Worrell

Samples Radioactive? ☐

Samples Contains Dioxin? ☐

Samples Biological Hazard? ☐

1 Glass Qt w/Teflon lined lid

	*Can	Calcium, Mehlich-3 extract	EPA 6010B CAS:7440-70-2 (180 days)
NELAC	*Caq	Calcium (SAR) meq/L calculation	EPA 6010B CAS:7440-70-2 (180 days)
NELAC	*Cas	Calcium (SAR Extracted)	EPA 6010B CAS:7440-70-2 (180 days)
	*Kn	Potassium, Mehlich-3 extract	EPA 6010B CAS:7440-09-7 (180 days)
	*Mgn	Magnesium, Mehlich-3 extract	EPA 6010B CAS:7439-95-4 (180 days)
NELAC	*Mgq	Magnesium (SAR) meq/L calculation	EPA 6010B CAS:7439-95-4 (180 days)
NELAC	*Mgs	Magnesium (SAR Extracted)	EPA 6010B CAS:7439-95-4 (180 days)
	*MPe	Mehlich-3 Extraction	Mehlich-3 Extraction (180 days)
	*Nan	Sodium, Mehlich-3 extract	EPA 6010C CAS:7440-23-5 (180 days)
NELAC	*Naq	Sodium (SAR) meq/L calculation	EPA 6010C CAS:7440-23-5 (180 days)
NELAC	*Nas	Sodium (SAR Extracted)	EPA 6010C CAS:7440-23-5 (180 days)
	*Pm	Phosphorus, Mehlich-3 extract	EPA 6010B (180 days)
	*SAR	Sodium Adsorption Ratio Extract	600/2-78-054 3.2.19 (180 days)
	*Sm	Sulfur, Mehlich-3 extract	EPA 6010B CAS:7704-34-9 (180 days)
	SAR	Sodium Adsorption Ratio	600/2-78-054 3.2.19
	SWP	Saturated Water Percentage	Handbook 60



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The Science of Sure

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CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE -A
108

1 Glass 8 oz w/Teflon lined lid

NELAC Subcontract	IN3K	Nitrate-nitrogen SUB(KCl Prep)	EPA 353.3 CAS:PACU (28.0 days)
NELAC	EC60	Conductance @ 25C(Sat Paste)	USDA Handbook 60

1 Glass 4 oz w/Teflon lined lid

NELAC	IN3S	Nitrate-Nitrogen	EPA 9056 CAS:14797-55-8 (28.0 days)
	*KCL	KCl Extraction	Black 84.2 (180 days)
NELAC	pHLZ	pH Measured in Water/2:1 water:s	EPA 9045D 4 CAS:12408-02-5 (180 days)
NELAC	TKN	Total Kjeldahl Nitrogen	EPA 351.2.2 CAS:7727-37-9 (28.0 days)
NELAC	TS%	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 Z -- No bottle required

	ARDW	As Received to Dry Weight Basis	Calculation
NELAC	TNIt	Total Nitrogen (as N)	Calculation (28.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
2-5-25	10:07	Printed Name	Affiliation	Printed Name	Affiliation
		Dennis Worrell		Darryl Dagnel	SPL
2/5/25	1500	Signature		Signature	
		[Signature]		[Signature]	
		Printed Name	Affiliation	Printed Name	Affiliation
		Darryl Dagnel	SPL	Ashley Vasquez - SPL, Inc.	
		Signature		Signature	
		[Signature]		[Signature]	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

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

If Shipped: Tracking Number & Temp - See Attached

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

Comments



1135104 CoC Print Group 001 of 002



COOLER CHECKIN

Region/Driver/Client

BOD

Date / Time:

2/5/25

/ 1500

Cooler:

of

Shipping Company:

SPL

Temp Label:

Date	2/5	Time	1500	Tech	ANJ
Temp:	1.8			1.4	c
Therm#: 6444 Corr Fact: -0.4 C					

1135104 CoC Print Group 001 of 002

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



SUBCONTRACT CHAIN OF CUSTODY

Printed 02/08/2025

Page 1 of 1

Subcontract to:

Pace Analytical Dallas
 400 West Bethany Drive
 Allen TX 75013
 972/727-1123

Sample	2378935	
Taken:	02/03/2025	15:00:00
Normal TAT	GRAB	
	coil temp	

Soil 0-6

1 Polyethylene 1/2 gal (White)

Requested Test(s)

!N3K

Nitrate-nitrogen SUB(KCl Prep) EPA 353.3

Shipping Temp

4

Previous Results:

Date Time	Relinquished	Date Time	Received
02/08/2025 09:31	Affiliation <u>SPL Kilgore</u> Printed Name Andy Owens Signature _____	02/08/2025 09:31	Affiliation <u>SPL Kilgore</u> Printed Name _____ Signature _____
	Printed Name _____ Signature _____		Printed Name _____ Signature _____
	Printed Name _____ Signature _____		Printed Name _____ Signature _____
	Printed Name _____ Signature _____		Printed Name _____ Signature _____

Sample Received on Ice? ☐ Yes ☐ No Method of Shipment: ☐ UPS ☐ Bus ☐ FedEx ☐ Lone Star ☐ Hand Delivered ☐ Other
 Cooler/Sample Secure? ☐ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached Hand Delivered to Region []

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Project 1135104

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spilabs.com

Report Page 31 of 34

1135104 CoC Print Group 001 of 002

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



SUBCONTRACT CHAIN OF CUSTODY

Printed 02/08/2025

Page 1 of 1

Subcontract to:

Pace Analytical Dallas
 400 West Bethany Drive
 Allen TX 75013
 972/727-1123

Sample	2378936
Taken:	02/03/2025 15:15:00
GRAB	
Normal TAT	

Soil 6-18

1 Polyethylene 1/2 gal (White)

Requested Test(s)

!N3K

Nitrate-nitrogen SUB(KCl Prep) EPA 353.3

Shipping Temp

4

Previous Results:

Date Time	Relinquished	Date Time	Received
02/08/2025 09:31	Affiliation <u>SPL Kilgore</u> Printed Name Andy Owens Signature _____	02/08/2025 09:31	Affiliation <u>SPL Kilgore</u> Printed Name _____ Signature _____
	Printed Name _____ Signature _____		Printed Name _____ Signature _____
	Printed Name _____ Signature _____		Printed Name _____ Signature _____
	Printed Name _____ Signature _____		Printed Name _____ Signature _____

Sample Received on Ice? ☐ Yes ☐ No Method of Shipment: ☐ UPS ☐ Bus ☐ FedEx ☐ Lone Star ☐ Hand Delivered ☐ Other
 Cooler/Sample Secure? ☐ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached Hand Delivered to Region []

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Comments

Project 1135104

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spplabs.com

Report Page 32 of 34

1135104 CoC Print Group 001 of 002

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



SUBCONTRACT CHAIN OF CUSTODY

Printed 02/08/2025

Page 1 of 1

Subcontract to:

Pace Analytical Dallas
 400 West Bethany Drive
 Allen TX 75013
 972/727-1123

Sample	2378937
Taken:	02/03/2025 15:30:00
	GRAB
Normal TAT	

Soil 18-30

1 Polyethylene 1/2 gal (White)

Requested Test(s)

!N3K

Nitrate-nitrogen SUB(KCl Prep) EPA 353.3

Shipping Temp

4

Previous Results:

Date Time	Relinquished	Date Time	Received
02/08/2025 09:32	Affiliation <u>SPL Kilgore</u> Printed Name Andy Owens Signature _____	02/08/2025 09:32	Affiliation <u>SPL Kilgore</u> Printed Name _____ Signature _____
	Printed Name _____ Signature _____ Affiliation <u>SPL Kilgore</u>		Printed Name _____ Signature _____ Affiliation _____
	Printed Name _____ Signature _____ Affiliation _____		Printed Name _____ Signature _____ Affiliation _____
	Printed Name _____ Signature _____ Affiliation _____		Printed Name _____ Signature _____ Affiliation _____

Sample Received on Ice? ☐ Yes ☐ No Method of Shipment: ☐ UPS ☐ Bus ☐ FedEx ☐ Lone Star ☐ Hand Delivered ☐ Other
 Cooler/Sample Secure? ☐ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached Hand Delivered to Region []

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Comments

Project 1135104

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spplabs.com

Report Page 33 of 34

1135104 CoC Print Group 002 of 002

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 24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
 Office: 903-984-0551 * Fax: 903-984-5914



SUBCONTRACT CHAIN OF CUSTODY

Printed 02/08/2025

Page 1 of 1

Subcontract to:

Pace Analytical Dallas
 400 West Bethany Drive
 Allen TX 75013
 972/727-1123

Sample	2380050
Taken:	02/03/2025 15:30:00
	GRAB
Normal TAT	

KCL BLANK

1 Polyethylene 1/2 gal (White)

Requested Test(s)

!N3K

Nitrate-nitrogen SUB(KCl Prep) EPA 353.3

Shipping Temp

4

Previous Results:

Date Time	Relinquished	Date Time	Received
02/08/2025 09:32	Affiliation <u>SPL Kilgore</u> Printed Name Andy Owens Signature	02/08/2025 09:32	Affiliation <u>SPL Kilgore</u> Printed Name Signature
	Printed Name Affiliation <u>SPL Kilgore</u> Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature
	Printed Name Affiliation Signature		Printed Name Affiliation Signature

Sample Received on Ice? ☐ Yes ☐ No Method of Shipment: ☐ UPS ☐ Bus ☐ FedEx ☐ Lone Star ☐ Hand Delivered ☐ Other
 Cooler/Sample Secure? ☐ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached Hand Delivered to Region []

The accredited column designates accreditation by A - A2LA, N - NELAP, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

Project 1135104

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spplabs.com

Report Page 34 of 34

Project
1152469

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Printed 07/01/2025
16:10

TABLE OF CONTENTS

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1152469_r03_03_ProjectResults	SPL Kilgore Project P:1152469 C:TABE Project Results t:304	3
1152469_r10_05_ProjectQC	SPL Kilgore Project P:1152469 C:TABE Project Quality Control Groups	2
1152469_r99_09_CoC__1_of_1	SPL Kilgore CoC TABE 1152469_1_of_1	3
Total Pages:		9





SAMPLE CROSS REFERENCE

Project
1152469

Printed 7/1/2025 Page 1 of 1
ww

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Sample	Sample ID	Taken	Time	Received
2421719	Allaso Ranch BOD/TSS/pH	06/25/2025	11:30:00	06/25/2025

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 BOD Titration Beaker A (Batch 1182228) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 03 BOD Analytical Beaker B (Batch 1182228) Volume: 100.00000 mL <== Derived from 01 (100 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 5210 B-2016	01	1182228	07/01/2025	1182228	07/01/2025
SM 2540 D-2020	01	1182602	06/26/2025	1182602	06/26/2025
SM 4500-H+ B-2011		1182171	06/25/2025	1182171	06/25/2025

Email: Kilgore.ProjectManagement@spllabs.com

TABE-A

Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Page 1 of 3

Project
1152469

Printed: 07/01/2025

RESULTS

Sample Results

2421719		Allaso Ranch BOD/TSS/pH		Gate Code 2019			Received:		06/25/2025						
Non-Potable Water		Collected by: BSD		SPL Kilgore			PO:								
		Taken: 06/25/2025		11:30:00											
		Prepared:		06/25/2025		16:13:35		Calculated		06/25/2025	16:13:35	CAL			
Parameter		Results		Units		RL		Flags		CAS		Bottle			
Sampling/Transport		Verified													
SM 2540 D-2020		Prepared:		1182602		06/26/2025		11:30:00		Analyzed		1182602	06/26/2025	11:30:00	ADR
Parameter		Results		Units		RL		Flags		CAS				Bottle	
NELAC	Total Suspended Solids	55.0		mg/L		20.0								01	
SM 4500-H+ B-2011		Prepared:		1182171		06/25/2025		11:33:00		Analyzed		1182171	06/25/2025	11:33:00	BSD
Parameter		Results		Units		RL		Flags		CAS				Bottle	
NELAC	pH (Onsite)	8.0		SU											
SM 5210 B-2016		Prepared:		1182228		06/26/2025				Analyzed		1182228	07/01/2025	13:20:57	ESN
Parameter		Results		Units		RL		Flags		CAS				Bottle	
NELAC	Biochemical Oxygen Demand (BOD5)	7.44		mg/L		2.00						1026-3		01	

Sample Preparation

2421719 Allaso Ranch BOD/TSS/pH	Gate Code 2019	Received: 06/25/2025
06/25/2025		



TABE-A

Page 2 of 3

Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75665

Project

1152469

Printed: 07/01/2025

2421719 Allaso Ranch BOD/TSS/pH Gate Code 2019 Received: 06/25/2025

06/25/2025

Prepared: 06/25/2025 16:13:35 Calculated 06/25/2025 16:13:35 CAL

z Enviro Fee (per Sampling Group) Verified

SM 2540 D-2011 Prepared: 1182254 06/26/2025 11:30:00 Analyzed 1182254 06/26/2025 11:30:00 ADR

NELAC TSS Set Started Started

SM 5210 B-2016 Prepared: 1182228 06/26/2025 Analyzed 1182228 06/26/2025 06:51:29 ESN

NELAC BOD Set Started Started

Qualifiers:

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

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

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

z -- Not covered by our NELAC scope of accreditation

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

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



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



TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Page 3 of 3

Project
1152469

Printed: 07/01/2025

A handwritten signature in black ink that reads 'Bill Peery'.

Bill Peery, MS, VP Technical Services



Report Page 5 of 10

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1152469

Printed 07/01/2025

Analytical Set **1182228**

SM 5210 B-2016

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Biochemical Oxygen Demand (BOD5)	1182228	0.06	0.200	0.500	mg/L	127761453
Biochemical Oxygen Demand (BOD5)	1182228	0.04	0.200	0.500	mg/L	127761505
Biochemical Oxygen Demand (BOD5)	1182228	0.06	0.200	0.500	mg/L	127761557
Biochemical Oxygen Demand (BOD5)	1182228	0.04	0.200	0.500	mg/L	127762795

Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Biochemical Oxygen Demand (BOD5)	2421364	2.28	5.88	mg/L	88.2 *	30.0
Biochemical Oxygen Demand (BOD5)	2421421	16.8	16.2	mg/L	3.64	30.0
Biochemical Oxygen Demand (BOD5)	2421461	2.77	2.17	mg/L	24.3	30.0
Biochemical Oxygen Demand (BOD5)	2421615	4.64	5.60	mg/L	18.8	30.0
Biochemical Oxygen Demand (BOD5)	2421697	25.8	29.0	mg/L	11.7	30.0
Biochemical Oxygen Demand (BOD5)	2421715	3.72	3.68	mg/L	1.08	30.0
Biochemical Oxygen Demand (BOD5)	2421831	101	100	mg/L	0.995	30.0

Seed Drop

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Biochemical Oxygen Demand (BOD5)	1182228	0.520	0.200	0.500	mg/L	127761455
Biochemical Oxygen Demand (BOD5)	1182228	0.497	0.200	0.500	mg/L	127761507
Biochemical Oxygen Demand (BOD5)	1182228	0.430	0.200	0.500	mg/L	127761559
Biochemical Oxygen Demand (BOD5)	1182228	0.460	0.200	0.500	mg/L	127762852

Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Biochemical Oxygen Demand (BOD5)		205	198	mg/L	104	83.7 - 116	127761456
Biochemical Oxygen Demand (BOD5)		207	198	mg/L	105	83.7 - 116	127761508
Biochemical Oxygen Demand (BOD5)		184	198	mg/L	92.9	83.7 - 116	127761560
Biochemical Oxygen Demand (BOD5)		199	198	mg/L	101	83.7 - 116	127762853

Analytical Set **1182171**

SM 4500-H+ B-2011

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
pH (Onsite)	6.0	6.0	SU	100	90 - 110	
pH (Onsite)	6.0	6.0	SU	100	90 - 110	

Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
pH (Onsite)	2421731	7.0	7.0	SU		20

Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
pH (Onsite)	1182171	7.9	8.0	SU	98.8	90 - 110	
pH (Onsite)	1182171	7.9	8.0	SU	98.8	90 - 110	

Analytical Set **1182602**

SM 2540 D-2020

Email: Kilgore.ProjectManagement@spllabs.com



Report Page 6 of 10

QUALITY CONTROL



Page 2 of 2

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1152469

Printed 07/01/2025

Blank								
<i>Parameter</i>	<i>PrepSet</i>	<i>Reading</i>	<i>MDL</i>	<i>MQL</i>	<i>Units</i>	<i>File</i>		
Total Suspended Solids	1182602	ND	2	2	mg/L	127771358		
ControlBlk								
<i>Parameter</i>	<i>PrepSet</i>	<i>Reading</i>	<i>MDL</i>	<i>MQL</i>	<i>Units</i>	<i>File</i>		
Total Suspended Solids	1182602	-0.0002			grams	127771357		
Duplicate								
<i>Parameter</i>	<i>Sample</i>		<i>Result</i>	<i>Unknown</i>		<i>Unit</i>	<i>RPD</i>	<i>Limit%</i>
Total Suspended Solids	2421618		43.0	44.0		mg/L	2.30	20.0
Total Suspended Solids	2421716		96.0	98.0		mg/L	2.06	20.0
Total Suspended Solids	2421719		58.0	55.0		mg/L	5.31	20.0
LCS								
<i>Parameter</i>	<i>PrepSet</i>	<i>Reading</i>		<i>Known</i>	<i>Units</i>	<i>Recover%</i>	<i>Limits</i>	<i>File</i>
Total Suspended Solids	1182602	50.0		50.0	mg/L	100	90.0 - 110	127771390
Standard								
<i>Parameter</i>	<i>Sample</i>	<i>Reading</i>	<i>Known</i>	<i>Units</i>	<i>Recover%</i>	<i>Limits%</i>	<i>File</i>	
Total Suspended Solids		90.0	100	mg/L	90.0	90.0 - 110	127771389	

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

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

CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.)

Email: Kilgore.ProjectManagement@spllabs.com



Report Page 7 of 10

1152469 CoC Print Group 001 of 001

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



SPL
The Science of Sure

Printed 06/11/2025 Page 1 of 2

CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE-A
101

Lab Number 2421719
PO Number _____
Phone 903/574-0627

Allaso Ranch BOD/TSS/pH

Gate Code 2019

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start

Date: 6-25-25 Time: 1130

Sampler Printed Name: Barry Dugue

Sampler Affiliation: SPL

Sampler Signature: Barry Dugue

Samples Radioactive? ☐

Samples Contains Dioxin? ☐

Samples Biological Hazard? ☐

☒ **1 On Site Testing**

NELAC Short Hold

pH

pH (Onsite)

SM 4500-H+ B-2011 (0.0104 days)

pH (Onsite)

Collected By BSD Date 6-25-25 Time 1130 Analyzed By BSD Date 6-25-25 Time 1133

Results 7.99 Units su Temp. 29.3 C Duplicate ☒ Units ☒ Temp. ☒ C

☒ **1 Polyethylene 1/2 gal (White)**

NELAC Short Hold

BOD

Biochemical Oxygen Demand (BOD5)

SM 5210 B-2016 CAS:1026-3 (2.04 days)

NELAC

TSS

Total Suspended Solids

SM 2540 D-2020 (7.00 days)

☒ **0 Z -- No bottle required**

PuCh

Sampling/Transport

Ambient Conditions/Comments



1152469 CoC Print Group 001 of 001

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



SPL
The Science of Sure

Printed 06/11/2025

Page 2 of 2

CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE-A
101

Date	Time	Relinquished		Received	
6/25/25	1605	Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? ☒ Yes ☐ No

Cooler/Sample Secure? ☒ Yes ☐ No

If Shipped: Tracking Number & Temp - See Attached

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

Comments



1152469 CoC Print Group 001 of 001



COOLER CHECKIN

Region/Driver/Client

BSD

Date / Time:

10/25 / 1505
of

Cooler:

Shipping Company:

SPL

Temp Label:

10/25 1505		SSI
Date	Time	Tech
Temp: 3.8	3.4	c
Therm#: 7737 Corr Fact: -0.2 C		

Project
1157622

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Printed 08/20/2025
7:18

TABLE OF CONTENTS

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

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1157622_r10_05_ProjectQC	SPL Kilgore Project P:1157622 C:TABE Project Quality Control Groups	8
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Total Pages:		18

Email: Kilgore.ProjectManagement@spillabs.com

Survey: How are we doing?



Report Page 1 of 19

SAMPLE CROSS REFERENCE

Project

1157622

Printed

8/20/2025

Page 1 of 1
Permit Renewal

Allaso Ranch
 Dennis
 2302 PR 7850
 Hawkins, TX 75765

Sample	Sample ID	Taken	Time	Received
2435544	Permit Renewal	08/07/2025	08:50:00	08/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized, I
 Bottle 02 Polyethylene 1/2 gal (White), Q
 Bottle 03 Polyethylene Quart, Q
 Bottle 04 H2SO4 to pH <2 Glass Qt w/Teflon lined lid, Q
 Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid, Q
 Bottle 06 16 oz HNO3 Metals Plastic, Q
 Bottle 07 8 oz Plastic H2SO4 pH < 2, Q
 Bottle 08 BOD Titration Beaker A (Batch 1189455) Volume: 100.00000 mL <== Derived from 02 (100 ml)
 Bottle 09 BOD Analytical Beaker B (Batch 1189455) Volume: 100.00000 mL <== Derived from 02 (100 ml)
 Bottle 10 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1189463) Volume: 20.00000 mL <== Derived from 07 (20 ml)
 Bottle 11 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1189526) Volume: 6.00000 mL <== Derived from 07 (6 ml)
 Bottle 12 Prepared Bottle: ICP Preparation for Metals (Batch 1189536) Volume: 50.00000 mL <== Derived from 06 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	02	1189820	08/08/2025	1189820	08/08/2025
EPA 200.7 4.4	12	1189536	08/08/2025	1189651	08/08/2025
SM 2320 B-2011	02	1191280	08/19/2025	1191280	08/19/2025
SM 5210 B-2016 (TCMP Inhibitor)	02	1189455	08/13/2025	1189455	08/13/2025
SM 2510 B-2011	02	1190087	08/12/2025	1190087	08/12/2025
SM 4500-Cl G-2011		1189609	08/07/2025	1189609	08/07/2025
SM 4500-O G-2016		1189433	08/07/2025	1189433	08/07/2025
EPA 1664B (HEM)	04	1190091	08/12/2025	1190091	08/12/2025
SM 9223 B (Colilert-18 QT)-2016	01	1189577	08/08/2025	1189577	08/08/2025
SM 9223 B (Colilert-18 QT)-2016	01	1189576	08/08/2025	1189576	08/08/2025
EPA 350.1 2	11	1189526	08/08/2025	1189906	08/11/2025
SM 2540 C-2020	03	1190141	08/11/2025	1190141	08/11/2025
EPA 351.2 2	10	1189463	08/08/2025	1189793	08/11/2025
Calculation	10	1189463	08/08/2025	1189793	08/11/2025
SM 2540 D-2020	02	1189927	08/11/2025	1189927	08/11/2025
SM 4500-H+ B-2011		1189435	08/07/2025	1189435	08/07/2025

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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

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Project
1157622

Printed: 08/20/2025

RESULTS

Sample Results

2435544 Permit Renewal

Received: 08/07/2025

Non-Potable Water

Collected by: BSD

SPL Kilgore

PO:

Taken: 08/07/2025

08:50:00

Calculation		Prepared: 1189463 08/08/2025 06:38:07		Calculated 1189793 08/11/2025 16:12:52		CAL
Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Nitrogen (as N)	7.711	mg/L	0.050			10
EPA 1664B (HEM)		Prepared: 1190091 08/12/2025 06:55:00		Analyzed 1190091 08/12/2025 06:55:00		MAX
Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Oil and Grease (HEM)	<4.44	mg/L	4.44			04
EPA 200.7 4.4		Prepared: 1189536 08/08/2025 07:00:00		Analyzed 1189651 08/08/2025 17:03:00		ANC
Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Phosphorus	5.83	mg/L	0.040		7723-14-0	12
EPA 300.0 2.1		Prepared: 1189820 08/08/2025 19:38:00		Analyzed 1189820 08/08/2025 19:38:00		KRA
Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Chloride	119	mg/L	3.00			02
NELAC Nitrate-Nitrogen Total	6.92	mg/L	0.226		14797-55-8	02
NELAC Sulfate	39.8	mg/L	3.00			02
EPA 350.1 2		Prepared: 1189526 08/08/2025 09:42:32		Analyzed 1189906 08/11/2025 15:37:00		AMB
Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Ammonia Nitrogen	<0.020	mg/L	0.020			11
EPA 351.2 2		Prepared: 1189463 08/08/2025 06:38:07		Analyzed 1189793 08/11/2025 11:08:00		AMB
Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Total Kjeldahl Nitrogen	0.791	mg/L	0.050		7727-37-9	10



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Project
1157622

Printed: 08/20/2025

2435544 Permit Renewal

Received: 08/07/2025

Non-Potable Water

Collected by: BSD

SPL Kilgore

PO:

Taken: 08/07/2025

08:50:00

SM 2320 B-2011		Prepared:		1191280	08/19/2025	08:41:00	Analyzed	1191280	08/19/2025	08:41:00	TRC
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	Total Alkalinity (as CaCO3)	190	mg/L	1.00					02		
SM 2510 B-2011		Prepared:		1190087	08/12/2025	12:56:00	Analyzed	1190087	08/12/2025	12:56:00	JKI
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	Lab Spec. Conductance at 25 C	905	umhos/cm						02		
SM 2540 C-2020		Prepared:		1190141	08/11/2025	10:30:00	Analyzed	1190141	08/11/2025	10:30:00	JMB
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	Total Dissolved Solids	550	mg/L	50.0					03		
SM 2540 D-2020		Prepared:		1189927	08/11/2025	12:13:00	Analyzed	1189927	08/11/2025	12:13:00	LSM
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	Total Suspended Solids	17.0	mg/L	4.00					02		
SM 4500-CI G-2011		Prepared:		1189609	08/07/2025	08:55:00	Analyzed	1189609	08/07/2025	08:55:00	BSD
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L]	1.51	mg/L	0.05							
SM 4500-H+ B-2011		Prepared:		1189435	08/07/2025	08:55:00	Analyzed	1189435	08/07/2025	08:55:00	BSD
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	pH (Onsite)	7.3	SU								
SM 4500-O G-2016		Prepared:		1189433	08/07/2025	08:55:00	Analyzed	1189433	08/07/2025	08:55:00	BSD
NELAC	Parameter	Results	Units	RL	Flags		CAS		Bottle		
	Dissolved Oxygen Onsite	3.5	mg/L	1.0							



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TABE-A

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Received: 08/07/2025

Non-Potable Water

Collected by: BSD

SPL Kilgore

PO:

Taken: 08/07/2025

08:50:00

SM 5210 B-2016 (TCMP Inhibitor)		Prepared: 1189455 08/08/2025		Analyzed 1189455 08/13/2025		12:35:39	JW1
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC	BOD Carbonaceous	7.53	mg/L	2.00			02
SM 9223 B (Colilert-18 QT)-2016		Prepared: 1189576 08/08/2025		11:06:00	Analyzed 1189576 08/08/2025	11:06:00	CP1
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC	MPN, Total Coliform, Non-Pot	49.6	MPN/100mL	1.00			01
SM 9223 B (Colilert-18 QT)-2016		Prepared: 1189577 08/08/2025		11:06:00	Analyzed 1189577 08/08/2025	11:06:00	CP1
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC	MPN, E.coli, Col.-18 - Non-Pot	1.0	MPN/100mL	1.00			01

Sample Preparation

2435544 Permit Renewal

Received: 08/07/2025

08/07/2025

		Prepared:	08/07/2025	17:01:34	Calculated		08/07/2025	17:01:34	CAL	
z	Enviro Fee (per Sampling Group)	Verified								
	EPA 1664B (HEM)	Prepared:	1189908	08/12/2025	06:55:00	Analyzed	1189908	08/12/2025	06:55:00	MAX
NELAC	O&G HEM Started	Started								



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2435544 Permit Renewal

Received: 08/07/2025

08/07/2025

EPA 200.2 2.8		Prepared: 1189536 08/08/2025		07:00:00	Analyzed 1189536 08/08/2025		07:00:00	AMC
z	Liquid Metals Digestion	50/50	ml					06
EPA 350.1, Rev. 2.0		Prepared: 1189526 08/08/2025		09:42:32	Analyzed 1189526 08/08/2025		09:42:32	CMS
NELAC	Ammonia Distillation	6/6	ml					07
EPA 351.2, Rev 2.0		Prepared: 1189463 08/08/2025		06:38:07	Analyzed 1189463 08/08/2025		06:38:07	AMB
NELAC	TKN Block Digestion	20/20	ml					07
SM 2540 C-2015		Prepared: 1189752 08/11/2025		10:30:00	Analyzed 1189752 08/11/2025		10:30:00	JMB
NELAC	Total Dissolved Solids Started	Started						
SM 2540 D-2011		Prepared: 1189254 08/11/2025		12:13:00	Analyzed 1189254 08/11/2025		12:13:00	LSM
NELAC	TSS Set Started	Started						
SM 5210 B-2016 (TCMP Inhibitor)		Prepared: 1189455 08/08/2025			Analyzed 1189455 08/08/2025		06:00:41	JW1
NELAC	BODc Set Started	Started						
SM 9223 B (Colilert-18 QT)-2016		Prepared: 1189574 08/07/2025		16:32:00	Analyzed 1189574 08/07/2025		16:32:00	CPI
NELAC	MPN (Colilert-18) Start Non-Pot	STARTED						01



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TABE-A

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Printed: 08/20/2025

Qualifiers:

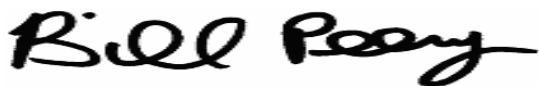
We report results on an As Received (or Wet) basis unless marked Dry Weight.

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

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

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

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



Bill Peery, MS, VP Technical Services



QUALITY CONTROL



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TABE-A

Allaso Ranch
Dennis
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Analytical Set **1189576**

SM 9223 B (Colilert-18 QT)-2016

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
MPN, Total Coliform, Non-Pot	1189576	<1.0	1.00	1.00	MPN/100mL	127933386

Micro Dup

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>Range</u>	<u>Criterion</u>
MPN, Total Coliform, Non-Pot	2435308	Duplicate	>2419.6	>2419.6	MPN/100mL		0.7825

Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
P. aeruginosa	1189574	<1.0	<1.0	MPN/100mL	-		127933383
Standard E. coli	1189574	>2419.6	>2419.6	MPN/100mL	-		127933385
Standard K.varicola	1189574	>2419.6	>2419.6	MPN/100mL	-		127933384

Analytical Set **1189577**

SM 9223 B (Colilert-18 QT)-2016

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
MPN, E.coli, Col.-18 - Non-Pot	1189577	<1.0	1.00	1.00	MPN/100mL	127933404

Micro Dup

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>Range</u>	<u>Criterion</u>
MPN, E.coli, Col.-18 - Non-Pot	2435308	Duplicate	3.1	2.0	MPN/100mL	0.190	0.7825

Standard

<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
P. aeruginosa	1189574	<1.0	<1.0	MPN/100mL	-		127933401
Standard E. coli	1189574	>2419.6	>2419.6	MPN/100mL	-		127933403
Standard K.varicola	1189574	<1.0	<1.0	MPN/100mL	-		127933402

Analytical Set **1189455**

SM 5210 B-2016 (TCMP Inhibitor)

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
BOD Carbonaceous	1189455	0.1	0.200	0.500	mg/L	127929692
BOD Carbonaceous	1189455	0.08	0.200	0.500	mg/L	127929742
BOD Carbonaceous	1189455	0.1	0.200	0.500	mg/L	127929794

Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
BOD Carbonaceous	2435128	42.2	40.8	mg/L	3.37	30.0
BOD Carbonaceous	2435274	77.3	82.7	mg/L	6.75	30.0
BOD Carbonaceous	2435442	2.53	2.85	mg/L	11.9	30.0
BOD Carbonaceous	2435532	5.65	4.21	mg/L	29.2	30.0
BOD Carbonaceous	2435637	3.57	2.93	mg/L	19.7	30.0

Seed Drop

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
BOD Carbonaceous	1189455	0.403	0.200	0.500	mg/L	127929694

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QUALITY CONTROL



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TABE-A

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1157622

Printed 08/20/2025

Seed Drop										
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>				
BOD Carbonaceous	1189455	0.437	0.200	0.500	mg/L	127929744				
BOD Carbonaceous	1189455	0.507	0.200	0.500	mg/L	127929796				
Standard										
<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>			
BOD Carbonaceous		225	198	mg/L	114	83.7 - 116	127929695			
BOD Carbonaceous		221	198	mg/L	112	83.7 - 116	127929745			
BOD Carbonaceous		205	198	mg/L	104	83.7 - 116	127929797			
Analytical Set		1189793					EPA 351.2 2			
Blank										
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>				
Total Kjeldahl Nitrogen	1189463	ND	0.00712	0.050	mg/L	127939818				
CCB										
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>				
Total Kjeldahl Nitrogen	1189463	ND	0.00712	0.050	mg/L	127939828				
Total Kjeldahl Nitrogen	1189463	ND	0.00712	0.050	mg/L	127939840				
Total Kjeldahl Nitrogen	1189793	ND	0.00712	0.050	mg/L	127939849				
CCV										
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>			
Total Kjeldahl Nitrogen		5.32	5.00	mg/L	106	90.0 - 110	127939817			
Total Kjeldahl Nitrogen		5.43	5.00	mg/L	109	90.0 - 110	127939826			
Total Kjeldahl Nitrogen		5.41	5.00	mg/L	108	90.0 - 110	127939836			
Total Kjeldahl Nitrogen		5.40	5.00	mg/L	108	90.0 - 110	127939846			
Total Kjeldahl Nitrogen		5.32	5.00	mg/L	106	90.0 - 110	127939850			
Duplicate										
<u>Parameter</u>	<u>Sample</u>		<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>			
Total Kjeldahl Nitrogen	2435134		0.466	0.474	mg/L	1.70	20.0			
Total Kjeldahl Nitrogen	2435135		0.400	0.344	mg/L	15.1	20.0			
ICV										
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>			
Total Kjeldahl Nitrogen		5.22	5.00	mg/L	104	90.0 - 110	127939816			
LCS Dup										
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Total Kjeldahl Nitrogen	1189463	4.90	4.86	5.00	90.0 - 110	98.0	97.2	mg/L	0.820	20.0
Mat. Spike										
<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Unknown</u>	<u>Known</u>	<u>Units</u>	<u>Recovery %</u>	<u>Limits %</u>	<u>File</u>		
Total Kjeldahl Nitrogen	2435134	5.22	0.474	5.00	mg/L	94.9	80.0 - 120	127939823		
Total Kjeldahl Nitrogen	2435135	5.42	0.344	5.00	mg/L	102	80.0 - 120	127939827		
Analytlcal Set		1189906					EPA 350.1 2			

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QUALITY CONTROL

TABE-A

Allaso Ranch
Dennis
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1157622

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Blank						
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Ammonia Nitrogen	1189526	ND	0.00336	0.020	mg/L	127941982

CCV						
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127941958
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	127941968
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127941979
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127941987
Ammonia Nitrogen	2.20	2.00	mg/L	110	90.0 - 110	127941998
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127942009
Ammonia Nitrogen	2.20	2.00	mg/L	110	90.0 - 110	127942019
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	127942026
Ammonia Nitrogen	2.11	2.00	mg/L	106	90.0 - 110	127942035
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127942046
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127942057
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127942068
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127942079
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127942085
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127942095
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127942106
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	127942114
Ammonia Nitrogen	2.13	2.00	mg/L	106	90.0 - 110	127942123
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	127942124
Ammonia Nitrogen	2.12	2.00	mg/L	106	90.0 - 110	127942132

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Ammonia Nitrogen	2435523	0.416	0.440	mg/L	5.61	20.0
Ammonia Nitrogen	2435541	ND	ND	mg/L		20.0

ICV						
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127941957

LCS Dup										
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Ammonia Nitrogen	1189526	2.17	2.14	2.00	90.0 - 110	108	107	mg/L	1.39	20.0

Mat. Spike										
<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Unknown</u>	<u>Known</u>	<u>Units</u>	<u>Recovery %</u>	<u>Limits %</u>	<u>File</u>		
Ammonia Nitrogen	2435523	2.50	0.440	2.00	mg/L	103	80.0 - 120	127941988		
Ammonia Nitrogen	2435541	2.16	ND	2.00	mg/L	108	80.0 - 120	127941991		

Analytical Set 1189433

SM 4500-O G-2016

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

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QUALITY CONTROL



SPL
The Science of Sure

Page 4 of 8

TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1157622

Printed 08/20/2025

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Dissolved Oxygen Onsite	2435544	3.5	3.5	mg/L		20

Analytical Set

1189435

SM 4500-H+ B-2011

CCV						
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
pH (Onsite)	6.0	6.0	SU	100	90 - 110	
pH (Onsite)	6.0	6.0	SU	100	90 - 110	

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
pH (Onsite)	2435544	7.3	7.3	SU		20

Standard						
<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>
pH (Onsite)	1189435	8.0	8.0	SU	100	90 - 110
pH (Onsite)	1189435	8.0	8.0	SU	100	90 - 110

Analytical Set

1189609

SM 4500-C1 G-2011

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L]	2435544	1.51	1.51	mg/L		20

Standard						
<u>Parameter</u>	<u>Sample</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>
Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L]	1189609	0.200	0.220	mg/L	90.9	90 - 110
Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L]	1189609	0.850	0.900	mg/L	94.4	90 - 110
Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L]	1189609	1.46	1.59	mg/L	91.8	90 - 110

Analytical Set

1189927

SM 2540 D-2020

Blank						
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Suspended Solids	1189927	ND	2	2	mg/L	127942485

ControlBlk						
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Suspended Solids	1189927	0.0001			grams	127942484

Duplicate						
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Suspended Solids	2435747	58.7	56.7	mg/L	3.47	20.0
Total Suspended Solids	2435953	435	470	mg/L	7.73	20.0
Total Suspended Solids	2435955	7040	7420	mg/L	5.26	20.0

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QUALITY CONTROL



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
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LCS											
Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File				
Total Suspended Solids	1189927	50.0		50.0	mg/L	100	90.0 - 110	127942518			
Standard											
Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File				
Total Suspended Solids		102	100	mg/L	102	90.0 - 110	127942517				
Analytical Set		1190091					EPA 1664B (HEM)				
Blank											
Parameter	PrepSet	Reading	MDL	MQL	Units		File				
Oil and Grease (HEM)	1190091	ND	0.804	4.00	mg/L		127944813				
ControlBlk											
Parameter	PrepSet	Reading	MDL	MQL	Units		File				
Oil and Grease (HEM)	1190091	0			grams		127944812				
Oil and Grease (HEM)	1190091	0			grams		127944837				
LCS											
Parameter	PrepSet	Reading		Known	Units	Recover%	Limits	File			
Oil and Grease (HEM)	1190091	33.5		40.0	mg/L	83.8	78.0 - 114	127944814			
MS											
Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Oil and Grease (HEM)	2435405	38.7	0	ND	40.0	78.0 - 114	96.8		mg/L		20.0
Analytical Set		1190141					SM 2540 C-2020				
Blank											
Parameter	PrepSet	Reading	MDL	MQL	Units		File				
Total Dissolved Solids	1190141	ND	5.00	5.00	mg/L		127946495				
ControlBlk											
Parameter	PrepSet	Reading	MDL	MQL	Units		File				
Total Dissolved Solids	1190141	0			grams		127946482				
Duplicate											
Parameter	Sample		Result	Unknown			Unit		RPD	Limit%	
Total Dissolved Solids	2435407		750	700			mg/L		6.90	20.0	
LCS											
Parameter	PrepSet	Reading		Known	Units	Recover%	Limits	File			
Total Dissolved Solids	1190141	198		200	mg/L	99.0	85.0 - 115	127946483			
Analytical Set		1189820					EPA 300.0 2.1				
AWRL/LOQ C											
Parameter		Reading	Known	Units	Recover%	Limits%	File				
Nitrate-Nitrogen Total		0.0237	0.0226	mg/L	105	70.0 - 130	127940787				

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QUALITY CONTROL

TABE-A

Allaso Ranch
Dennis
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Project
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Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Chloride	1189820	0.0503	0.0213	0.300	mg/L	127940788
Nitrate-Nitrogen Total	1189820	ND	0.00655	0.0226	mg/L	127940788
Sulfate	1189820	ND	0.283	0.300	mg/L	127940788

CCB

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Chloride	1189820	0.0533	0.0213	0.300	mg/L	127940784
Chloride	1189820	0.0564	0.0213	0.300	mg/L	127940804
Chloride	1189820	0.0591	0.0213	0.300	mg/L	127940816
Nitrate-Nitrogen Total	1189820	0.00214	0.00655	0.0226	mg/L	127940784
Nitrate-Nitrogen Total	1189820	0.00201	0.00655	0.0226	mg/L	127940804
Nitrate-Nitrogen Total	1189820	0.0023	0.00655	0.0226	mg/L	127940816
Sulfate	1189820	0	0.283	0.300	mg/L	127940784
Sulfate	1189820	0	0.283	0.300	mg/L	127940804
Sulfate	1189820	0	0.283	0.300	mg/L	127940816

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Chloride	10.0	10.0	mg/L	100	90.0 - 110	127940783
Chloride	10.1	10.0	mg/L	101	90.0 - 110	127940803
Chloride	10.1	10.0	mg/L	101	90.0 - 110	127940815
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110	127940783
Nitrate-Nitrogen Total	2.24	2.26	mg/L	99.1	90.0 - 110	127940803
Nitrate-Nitrogen Total	2.24	2.26	mg/L	99.1	90.0 - 110	127940815
Sulfate	9.48	10.0	mg/L	94.8	90.0 - 110	127940783
Sulfate	9.40	10.0	mg/L	94.0	90.0 - 110	127940803
Sulfate	9.40	10.0	mg/L	94.0	90.0 - 110	127940815

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride	1189820	4.87	4.88	5.00	85.0 - 115	97.4	97.6	mg/L	0.205	20.0
Nitrate-Nitrogen Total	1189820	1.18	1.21	1.13	86.3 - 117	104	107	mg/L	2.51	20.0
Sulfate	1189820	4.61	4.61	5.00	85.4 - 124	92.2	92.2	mg/L	0	20.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride	2433734	62.6	62.6	56.1	10.0	80.0 - 120	65.0 *	65.0 *	mg/L	0	20.0
Nitrate-Nitrogen Total	2433734	2.56	2.56	0.288	2.26	80.0 - 120	101	101	mg/L	0	20.0
Sulfate	2433734	53.8	55.2	50.9	10.0	80.0 - 120	29.0 *	43.0 *	mg/L	38.9 *	20.0
Chloride	2433736	70.6	71.4	62.4	10.0	80.0 - 120	82.0	90.0	mg/L	9.30	20.0
Nitrate-Nitrogen Total	2433736	2.47	2.41	0.108	2.26	80.0 - 120	105	102	mg/L	2.57	20.0
Sulfate	2433736	521	529	526	10.0	80.0 - 120	-50.0 *	30.0 *	mg/L	1.52	20.0

Analytical Set

1189651

EPA 200.7 4.4

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
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QUALITY CONTROL



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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
1157622

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Blank											
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>					
Phosphorus	1189536	ND	0.0353	0.040	mg/L	127934850					
CCV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Phosphorus		1.01	1.00	mg/L	101	90.0 - 110	127934848				
Phosphorus		0.931	1.00	mg/L	93.1	90.0 - 110	127934849				
Phosphorus		0.919	1.00	mg/L	91.9	90.0 - 110	127934859				
Phosphorus		0.901	1.00	mg/L	90.1	90.0 - 110	127934865				
ICL											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Phosphorus		25.1	25.0	mg/L	100	95.0 - 105	127934846				
ICV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Phosphorus		1.03	1.00	mg/L	103	90.0 - 110	127934847				
LCS Dup											
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>		<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Phosphorus	1189536	3.69	3.84		4.00	85.0 - 115	92.2	96.0	mg/L	3.98	25.0
MSD											
<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Phosphorus	2435344	3.98	3.97	0.138	4.00	75.0 - 125	96.0	95.8	mg/L	0.261	25.0

Analytical Set

1190087

SM 2510 B-2011

Blank							
<i>Parameter</i>	<i>PrepSet</i>	<i>Reading</i>	<i>MDL</i>	<i>MQL</i>	<i>Units</i>	<i>File</i>	
Lab Spec. Conductance at 25 C	1190087	0.492			umhos/cm	127944750	
Duplicate							
<i>Parameter</i>	<i>Sample</i>	<i>Result</i>	<i>Unknown</i>		<i>Unit</i>	<i>RPD</i>	<i>Limit%</i>
Lab Spec. Conductance at 25 C	2433024	21800	21800		umhos/cm	0	20.0
Lab Spec. Conductance at 25 C	2435544	906	905		umhos/cm	0.110	20.0
ICV							
<i>Parameter</i>		<i>Reading</i>	<i>Known</i>	<i>Units</i>	<i>Recover%</i>	<i>Limits%</i>	<i>File</i>
Lab Spec. Conductance at 25 C		13000	12900	umhos/cm	101	90.0 - 110	127944753
Standard							
<i>Parameter</i>	<i>Sample</i>	<i>Reading</i>	<i>Known</i>	<i>Units</i>	<i>Recover%</i>	<i>Limits%</i>	<i>File</i>
Lab Spec. Conductance at 25 C	1190087	1420	1410	umhos/cm	101	90.0 - 110	127944751
Lab Spec. Conductance at 25 C	1190087	100	100	umhos/cm	100	90.0 - 110	127944752
Lab Spec. Conductance at 25 C	1190087	1420	1410	umhos/cm	101	90.0 - 110	127944771
Lab Spec. Conductance at 25 C	1190087	1420	1410	umhos/cm	101	90.0 - 110	127944772

Analytical Set

1191280

SM 2320 B-2011

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TABE-A

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

Project
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Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Total Alkalinity (as CaCO ₃)	1191280	ND	1.00	1.00	mg/L	127969073
Total Alkalinity (as CaCO ₃)	1191280	ND	1.00	1.00	mg/L	127969100

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Alkalinity (as CaCO ₃)	25.5	25.0	mg/L	102	90.0 - 110	127969072
Total Alkalinity (as CaCO ₃)	25.3	25.0	mg/L	101	90.0 - 110	127969086
Total Alkalinity (as CaCO ₃)	25.1	25.0	mg/L	100	90.0 - 110	127969099
Total Alkalinity (as CaCO ₃)	25.3	25.0	mg/L	101	90.0 - 110	127969113
Total Alkalinity (as CaCO ₃)	25.4	25.0	mg/L	102	90.0 - 110	127969126

Duplicate

<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>Limit%</u>
Total Alkalinity (as CaCO ₃)	2434010	321	329	mg/L	2.46	20.0
Total Alkalinity (as CaCO ₃)	2434639	105	102	mg/L	2.90	20.0
Total Alkalinity (as CaCO ₃)	2434745	82.2	84.2	mg/L	2.40	20.0
Total Alkalinity (as CaCO ₃)	2434856	76.0	71.5	mg/L	6.10	20.0

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Total Alkalinity (as CaCO ₃)	25.4	25.0	mg/L	102	90.0 - 110	127969071

Mat. Spike

<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Unknown</u>	<u>Known</u>	<u>Units</u>	<u>Recovery %</u>	<u>Limits %</u>	<u>File</u>
Total Alkalinity (as CaCO ₃)	2434010	359	329	25.0	mg/L	120	70.0 - 130	127969076
Total Alkalinity (as CaCO ₃)	2434639	129	102	25.0	mg/L	108	70.0 - 130	127969116
Total Alkalinity (as CaCO ₃)	2434745	105	84.2	25.0	mg/L	83.2	70.0 - 130	127969089
Total Alkalinity (as CaCO ₃)	2434856	97.7	71.5	25.0	mg/L	105	70.0 - 130	127969103

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

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

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

1157622 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE-A
111

Lab Number 2435544
PO Number _____
Phone 903/574-0627

Permit Renewal

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start

Date: 8-7-25 Time: 0850

Sampler Printed Name: Barry Dagne

Sampler Affiliation: SPL

Sampler Signature: Barry Dagne

Samples Radioactive? ☐

Samples Contains Dioxin? ☐

Samples Biological Hazard? ☐

☐ On Site Testing

NECAC

Cl2O

Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L] SM 4500-Cl G-2011

Cl2 Res.,Total(Onsite)Spec Mid [RL 0.05 mg/L]

Collected By BSD Date 8-7-25 Time 0850 Analyzed By BSD Date 8-7-25 Time 0855

Results 1.51 Units MG/L Temp. 26.8 C Duplicate 1.51 Units MG/L Temp. 26.7 C

R1 1.68 R2 0.17 QC R1 1.68 QC R2 0.17

NECAC Short Hold

DO

Dissolved Oxygen Onsite

SM 4500-O G-2016 (0.0104 days)

Dissolved Oxygen Onsite

Collected By BSD Date 8-7-25 Time 0850 Analyzed By BSD Date 8-7-25 Time 0855

Results 3.50 Units MG/L Temp. 26.6 C Duplicate 3.49 Units MG/L Temp. 26.7 C

NECAC Short Hold

pH

pH (Onsite)

SM 4500-H+ B-2011 (0.0104 days)



1157622 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE-A
111

pH (Onsite)

Collected By BS D Date 8-7-25 Time 08:50 Analyzed By BS D Date 8-7-25 Time 08:55

Results 7.26 Units su Temp. 26.8 C Duplicate 7.34 Units su Temp. 26.7 C

1 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized, I			
NELAC Short Hold	MPNW	MPN, E.coli, Col.-18 - Non-Pot	SM 9223 B (Colilert-18 QT)-2016 (0.333 days)
2 H2SO4 to pH <2 GIQt w/Tef-lined lid, Q			
NELAC	HEM	Oil and Grease (HEM)	EPA 1664B (HEM) (28.0 days)
1 Polyethylene 1/2 gal (White), Q			
NELAC Short Hold	BODc	BOD Carbonaceous	SM 5210 B-2016 (TCMP Inhibitor) (2.04 days)
NELAC	TSS	Total Suspended Solids	SM 2540 D-2020 (7.00 days)
0 Z -- No bottle required			
NELAC	TNIt	Total Nitrogen (as N)	Calculation (28.0 days)
1 HNO3 to pH <2 Polyethylene 500 mL for Metals, Q			
NELAC	*PI	Phosphorus	EPA 200.7 4.4 CAS:7723-14-0 (28.0 days)
	301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)
1 H2SO4 to pH <2 250 ml Polyethylene, Q			
NELAC	NHaN	Ammonia Nitrogen	EPA 350.1 2 (28.0 days)
NELAC	TKN	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)
1 Polyethylene Quart, Q			
NELAC	ICIL	Chloride	EPA 300.0 2.1 (28.0 days)
NELAC Short Hold	IN3L	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)
NELAC	IS4L	Sulfate	EPA 300.0 2.1 (28.0 days)
NELAC	AlkT	Total Alkalinity (as CaCO3)	SM 2320 B-2011 (14.0 days)



Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75665

3.25.17

Formplates: SPL1 Created 12/13/2019 v1.6

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



CHAIN OF CUSTODY

Allaso Ranch
Dennis
2302 PR 7850
Hawkins, TX 75765

TABE-A
111

NELAC

CONL Lab Spec. Conductance at 25 C

SM 2510 B-2011 (28.0 days)

NELAC

TDS Total Dissolved Solids

SM 2540 C-2020 (7.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
8/7/25	1600	Printed Name: Barry Dagnel Signature: Barry Dagnel Affiliation: SPL	Printed Name: Ashley Vasquez - SPL, Inc. Signature: Ashley Vasquez Affiliation: SPL, Inc.
		Printed Name: Signature: Affiliation:	Printed Name: Signature: Affiliation:
		Printed Name: Signature: Affiliation:	Printed Name: Signature: Affiliation:
		Printed Name: Signature: Affiliation:	Printed Name: Signature: Affiliation:

Sample Received on Ice?



Cooler/Sample Secure?



If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2L, N - NELAC, or x - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments





COOLER CHECKIN

Region/Driver/Client

BSD

Date / Time:

8/7/2025

/

1600

Cooler:

of

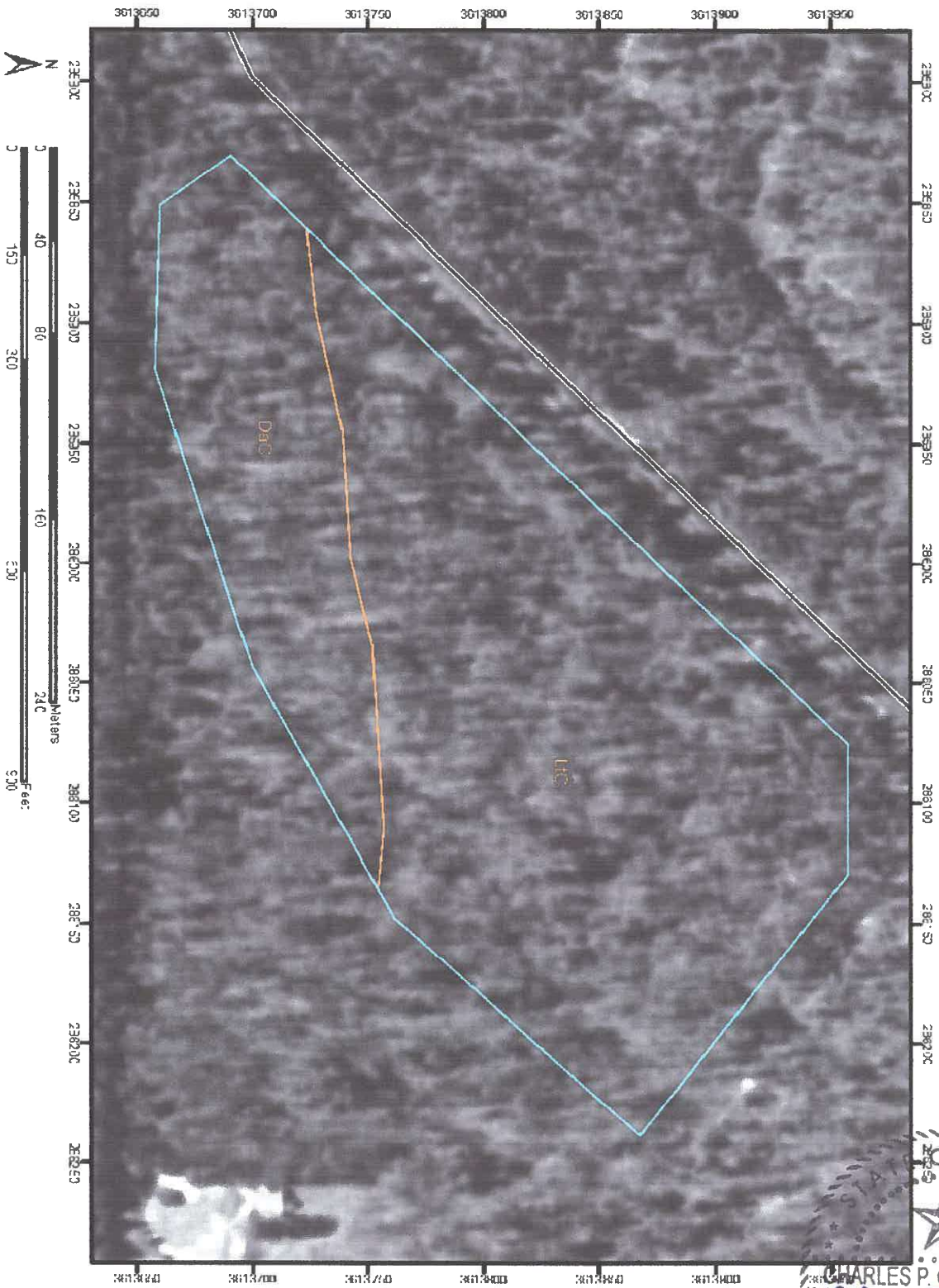
Shipping Company:

SPL

Temp Label:

8/7	1600	AMV
Date	Time	Tech
Temp: 1.9		1.7 C
Therm#: 7735 Corr Fact: -0.2 C		

Soil Map-Wood County Texas
(Fellowship Irrigation Field)



Natural Resources
Conservation Service

Web Soil Survey 2.0
National Cooperative Soil Survey

3/21/2008
Page 1 of 3

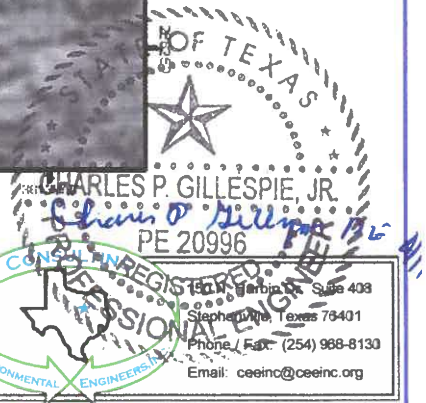


EXHIBIT
XVI

PROJECT NAME: Fellowship Church Youth Camp

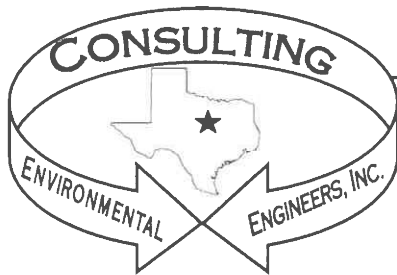
DRAWING NAME: Soil Survey Map

DATE DRAWN: 3-28-08

DRAWN BY: CPG ala

SCALE: NTS

1901 Barber St., Suite 408
Stephenville, Texas 76401
Phone / Fax: (254) 968-8130
Email: ceeinc@ceeinc.org



150 Harbin Drive - Suite 408 Phone/Fax: 254-968-8130
 Stephenville, Texas 76401 email: ceeinc@ceeinc.org

Sludge Management Calculation Sheet

Permittee Fellowship Church Youth Camp

Influent BOD 325 mg/l

Effluent BOD 20 mg/l

Average Daily Flow 40000 gallon/day

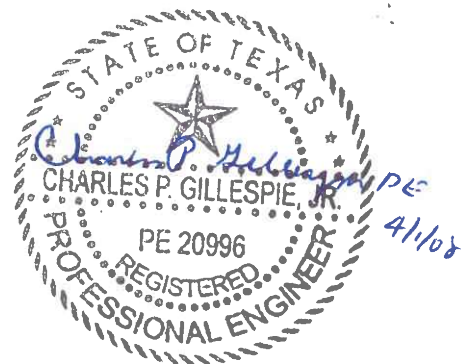
Influent TSS 325 mg/l

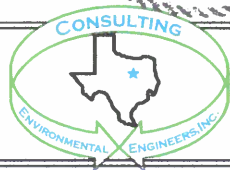
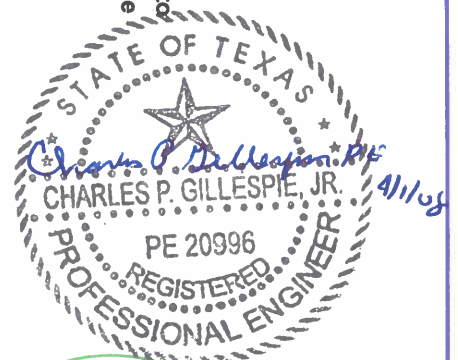
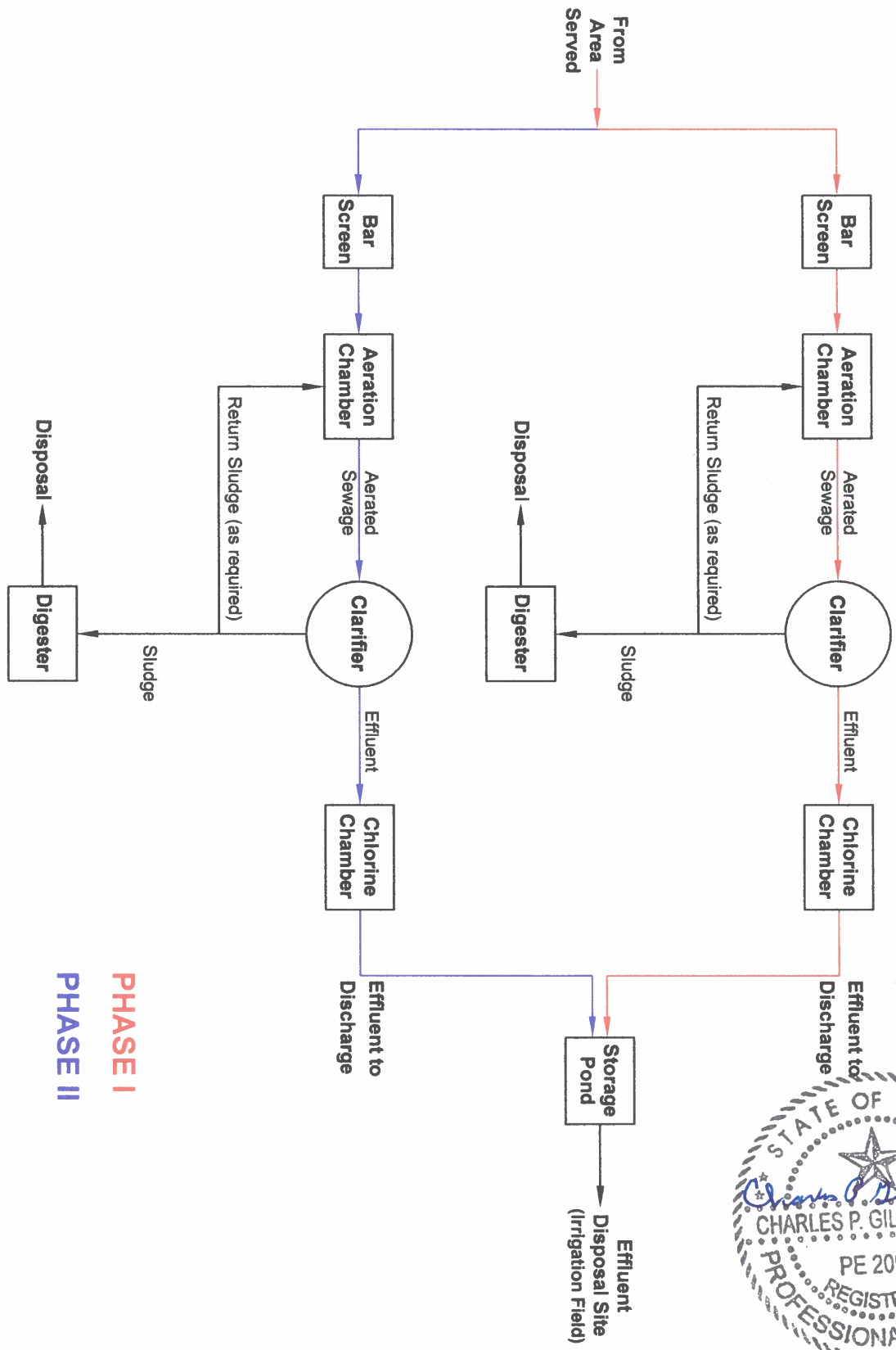
Average Daily Organic Load 108.29 lbs/day

Required Digester Volume 2166 cubic feet

BOD Removal 101.75 lbs/day

Solids Generated	100%	75%	50%	25%
BOD Removed	101.75	76.31	76.31	25.44
Non-Volatile TSS	108.29	81.22	54.15	27.07
Solids Produced (lbs)	50.87	38.16	25.44	12.72
Total Wet Sludge	3979.10	2984.33	1989.55	994.78
Volume of Wet Sludge (cubic ft)	63.86	47.90	31.93	15.97
Sludge Storage Available	33.9	45.2	67.8	135.7



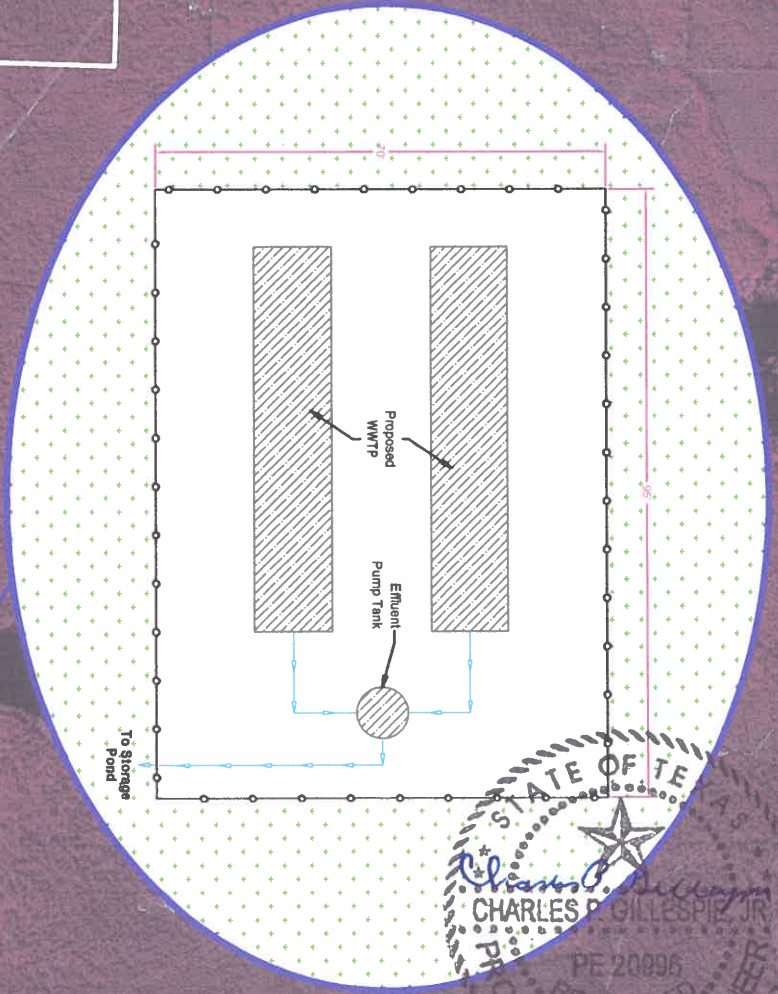
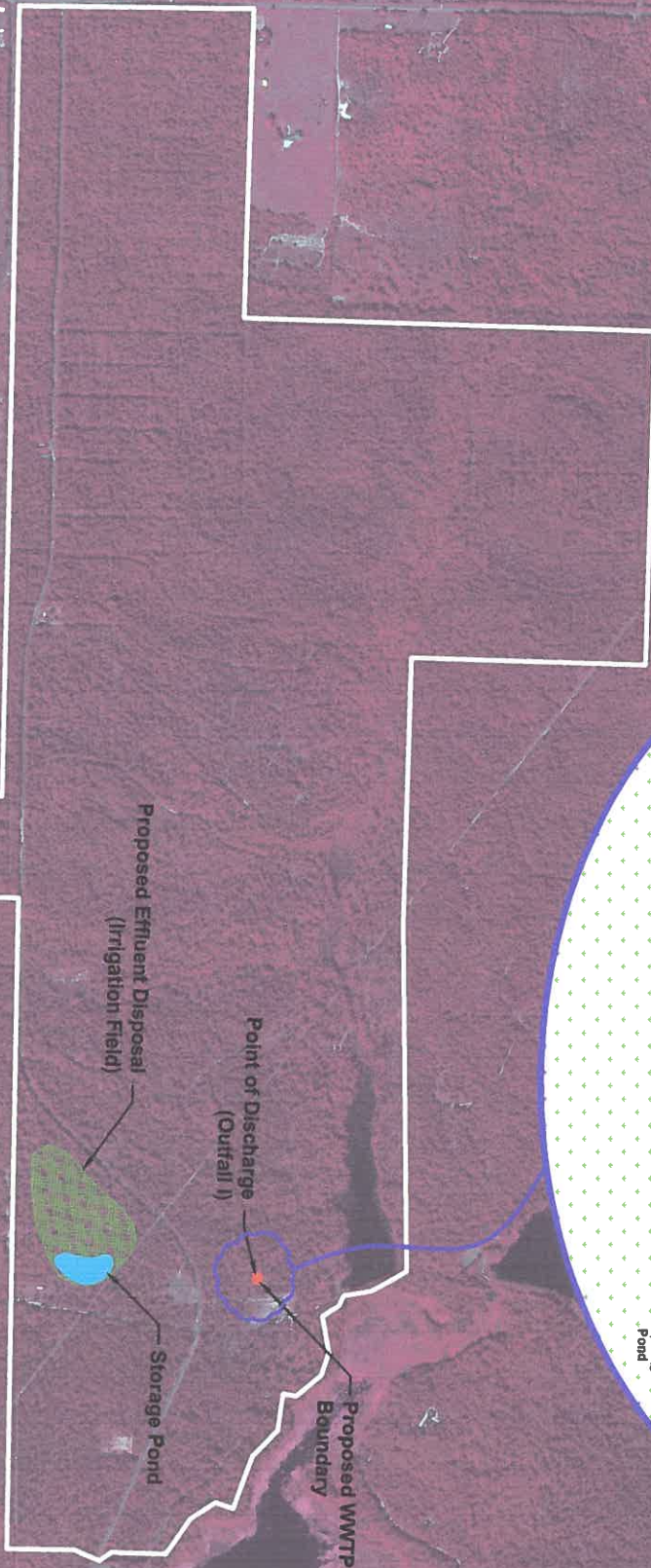


150 N. Harbin Dr. Suite 408
 Stephenville, Texas 76401
 Phone / Fax: (254) 968-8130
 Email: ceeinc@ceeinc.org

PROJECT NAME: Fellowship Church Youth Camp
 DRAWING NAME: Flow Diagram

DATE DRAWN: 3-28-08
 DRAWN BY: CPG ala
 SCALE: NTS

EXHIBIT
 VIII



STATE OF TEXAS
Professional Engineer
Charles P. Gillespie, Jr.
PE 20096
14/05

EXHIBIT
IX

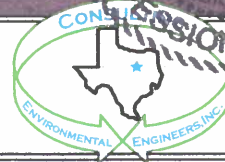
PROJECT NAME: Fellowship Church Youth Camp

DRAWING NAME: Site Drawing

DATE DRAWN: 3-28-08

DRAWN BY: CPG ala

SCALE: NTS



100 W. Hobart Dr. Suite 408
Stephenville, Texas 76401
Phone / Fax: (254) 968-8130
Email: ceeinc@ceeinc.org

Francesca Findlay

From: Dennis Worrell <Dennis.Worrell@allasoranch.com>
Sent: Friday, August 29, 2025 12:28 PM
To: Francesca Findlay
Subject: Re: WQ0015097001 : Fellowship Church

Francesca Findlay,

1. Yes, you are correct, the address is 121 E. Blackburn, Hawkins Tx 75765 for the Library where the posting will be placed.
2. The information for the posting looks to be correct.

Thank You!

Dennis



Dennis Worrell
ALLASO RANCH
allasoranch.com
903-769-7300

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Friday, August 29, 2025 11:22 AM
To: CEEINC@CEEINC.GOV <CEEINC@CEEINC.GOV>
Cc: Dennis Worrell <Dennis.Worrell@allasoranch.com>
Subject: FW: WQ0015097001 : Fellowship Church

You don't often get email from francesca.findlay@tceq.texas.gov. [Learn why this is important](#)

Mr. Gillespie,

Please send me an email with your correct email address so I can update your information.

Dear Mr. Worrell:

The attached Notice of Deficiency letter sent on August 28, 2025, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention September 11, 2025.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail

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

Francesca Findlay

From: Dennis Worrell <Dennis.Worrell@allasoranch.com>
Sent: Monday, September 15, 2025 12:30 PM
To: Francesca Findlay
Subject: Re: WQ0015097001 : Fellowship Church

Hello Francesca,

We are not requesting an amendment to our current permit. I apologize for not removing the phase 1 and 2 information. We wish to continue operating at our current flow of 40,000 (.040 MGD).

Thank you for your help!

Dennis



Dennis Worrell
ALLASO RANCH
allasoranch.com
903-769-7300

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Monday, September 15, 2025 10:30 AM
To: Dennis Worrell <Dennis.Worrell@allasoranch.com>
Subject: RE: WQ0015097001 : Fellowship Church

Good morning,

I am working on declaring the application administratively complete and noticed that in the Technical Report 1.0, Section 1, an Interim I and II phase were listed with a flow of 20,000 (0.02 MGD). However, the current permit only shows a flow of 40,000 (.040 MGD). Please confirm if you are wanting to add an interim phase with a flow of 20,000 gallons per day. If so, please provide a revised section 2, of TCEQ form number 10053, to show an application type of "Minor Amendment with Renewal" in item d, as well as provide the amendment request in item e.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail

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

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Sent: Friday, August 29, 2025 12:28 PM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Subject: Re: WQ0015097001 : Fellowship Church

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Thank You!

Dennis



Dennis Worrell
ALLASO RANCH
allasoranch.com
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Sent: Friday, August 29, 2025 11:22 AM
To: CEEINC@CEEINC.GOV <CEEINC@CEEINC.GOV>
Cc: Dennis Worrell <Dennis.Worrell@allasoranch.com>
Subject: FW: WQ0015097001 : Fellowship Church

You don't often get email from francesca.findlay@tceq.texas.gov. [Learn why this is important](#)
Mr. Gillespie,

Please send me an email with your correct email address so I can update your information.

Dear Mr. Worrell:

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Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail

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



PERMIT NO. WQ0015097001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This is a renewal of Permit No.
WQ0015097001 issued on
June 15, 2017.

PERMIT TO DISCHARGE WASTES
under provisions of Chapter 26
of the Texas Water Code

Fellowship Church

whose mailing address is

2302 Private Road 7850
Hawkins, Texas 75765

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 8661.

General Description and Location of Waste Disposal System:

Description: The Allaso Ranch Camp Wastewater Treatment Facility consists of an activated sludge process plant using the extended aeration mode. Treatment units include two bar screens, two aeration basins, two final clarifiers, two aerobic sludge digesters, and two chlorine contact chambers. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.04 million gallons per day (MGD) via surface irrigation of 18 acres of non-public access pastureland. The facility includes one storage ponds with a total surface area of 2.0 acres and total capacity of 21.7 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 2.49 acre-feet per year per acre irrigated. The irrigated crops include bermuda grass.

Location: The wastewater treatment facility and disposal site are located at 2302 Private Road 7850, in Wood County, Texas 75765. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Sabine River Below Lake Tawakoni in Segment No. 0506 of the Sabine River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight, **ten years from the date of issuance.**

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Conditions of the Permit: No discharge of pollutants into water in the state is authorized.

A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

Volume: Daily Average Flow – 0.04 MGD from the treatment system

Quality: The following effluent limitations are required:

<u>Parameter</u>	Effluent Concentrations			
	(Not to Exceed)			
	<u>Daily Average</u> mg/l	<u>7-Day Average</u> mg/l	<u>Daily Maximum</u> mg/	<u>Single Grab</u> mg/l
Biochemical Oxygen Demand (5-day)	20	30	45	65
Total Suspended Solids	20	30	45	65

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of 20 minutes.

B. Monitoring Requirements:

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	One/week	Grab
Total Suspended Solids	One/week	Grab
pH	One/week	Grab
Total Chlorine Residual	Five/week	Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

DEFINITIONS

All definitions in Section 26.001 of the Texas Water Code and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- b. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.
- c. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
 - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).
 - b. Grab sample - an individual sample collected in less than 15 minutes.
4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.
 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
 7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING REQUIREMENTS

1. Monitoring Requirements

Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§ 319.4 - 319.12.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record or other document submitted or required to be maintained under this permit, including monitoring reports, records or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests and calculations shall be accurately accomplished in a representative manner.

- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, or application. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement.
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
 - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
 - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.
8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D,

Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:

- i. One hundred micrograms per liter (100 µg/L);
 - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
- i. Five hundred micrograms per liter (500 µg/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

PERMIT CONDITIONS

1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.
- h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or

monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in Texas Water Code Section 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
 - ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this

permit.

- e. In accordance with the Texas Water Code § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal which requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

8. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

9. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

10. Notice of Bankruptcy.

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).

7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information specified as not confidential in 30 TAC § 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities which generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

- a. Whenever flow measurements for any domestic sewage treatment facility reach 75 percent of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90 percent of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75 percent of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgement of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or

discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
 - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;

- iii. Date(s) of disposal;
- iv. Identity of hauler or transporter;
- v. Location of disposal site; and
- vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge or biosolids only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge or biosolids to assure compliance with these regulations.
3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 5) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224) by September 30th of each year.

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration</u> <u>(Milligrams per kilogram)*</u>
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

- a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and

thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

- b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected

within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the

processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.
- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone

requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used.

Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

- Alternative 9 -
- i. Sewage sludge shall be injected below the surface of the land.
 - ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
 - iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
- Alternative 10 -
- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
 - ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- once during the term of this permit
PCBs	- once during the term of this permit

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

<u>Amount of biosolids (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B BIOSOLIDS PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

<u>Pollutant</u>	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

<u>Pollutant</u>	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge or biosolids enters a wetland or other waters in the State.
2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

“I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.”
6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee’s specific sludge or biosolids treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
 - c. The number of acres in each site on which bulk sludge or biosolids are applied.
 - d. The date and time sludge or biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224), by September 30th of each year the following information:

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.
16. Amount of sludge or biosolids transported in dry tons/year.
17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

- a. The location, by street address, and specific latitude and longitude.
- b. The number of acres in each site on which bulk biosolids are applied.
- c. The date and time bulk biosolids are applied to each site.
- d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
- e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 5) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224), by September 30th of each year.

- D. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- E. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Toxicity Characteristic Leaching Procedure (TCLP) results.
3. Annual sludge or biosolids production in dry tons/year.
4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge or biosolids transported interstate in dry tons/year.
6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
7. Identity of hauler(s) and transporter registration number.
8. Owner of disposal site(s).
9. Location of disposal site(s).
10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge or biosolids transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224), by September 30th of each year the following information:

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

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SPECIAL PROVISIONS:

1. This permit is granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.
2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category D* facility must be operated by a chief operator or an operator holding a Class D* license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

*A Class D Wastewater Treatment Operator license is not renewable for operators of a facility listed in 30 TAC Section 30.342(c) and must be upgraded to a Class C Wastewater Treatment Operator license or higher prior to the expiration date of the Class D license.

3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
4. The permittee shall obtain representative soil samples from the root zones of the land application area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 18 acres with no less than 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 inches to 18 inches, and 18 inches to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

The permittee shall provide annual soil analyses of the land application area according to the following table:

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
pH	2:1 (v/v) water to soil mixture		Standard units; Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	Obtained from the SAR water saturated paste extract	0.01	dS/m (same as mmho/cm)
Nitrate-nitrogen	From a 1 <u>N</u> KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN + nitrate-nitrogen (same as, organic-nitrogen + ammonium-nitrogen + nitrate-nitrogen)		mg/kg (dry weight basis)
Plant-available: Phosphorus (P)	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (K) Calcium (Ca) Magnesium (Mg) Sodium (Na) Sulfur (S)	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K) 10 (Ca) 5 (Mg) 10 (Na) 1 (S)	mg/kg (dry weight basis)
Water-soluble: Sodium (Na) Calcium (Ca) Magnesium (Mg)	Obtained from the SAR water saturated paste extract	1 (Na) 1 (Ca) 1 (Mg)	Water soluble constituents are <i>reported</i> in mg/L
Sodium Adsorption Ratio (SAR)	$SAR = \frac{Na}{\sqrt{\frac{(Ca + Mg)}{2}}}$		<i>Express concentrations of Na, Ca and Mg in the water saturated paste extract in milliequivalents/liter (meq/L) to calculate the SAR.</i>

			The SAR value is unit less. If the SAR is greater than 10, amendments (e.g., gypsum) shall be added to the soil to adjust the SAR to less than 10.
Amendment addition, e.g., gypsum	Recommendation from analytical laboratory		Report in <i>short tons/acre</i> in the year effected

The permittee shall provide a copy of this plan to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224) no later than end of September following the sampling date of each year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land disposal sites during that year.

5. Within 30 days from permit issuance, the permittee shall submit to the TCEQ Domestic Wastewater Section (MC 148) of the Water Quality Division, a summary transmittal letter according to the requirements in 30 TAC § 217.6(d). If requested by the Domestic Wastewater Section, the permittee shall submit plans, specifications and a final engineering design report which comply with the requirements of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the permitted effluent limitations required on Page 2 of the permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.
6. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
7. No irrigation shall take place within a minimum of 100 feet from the unnamed creek along the western part of the facility property boundary or any surface water feature.
8. The permittee will maintain Bermuda grass and ryegrass on the disposal site. Application rates to the irrigated land shall not exceed 2.49 acre-feet per year per acre irrigated. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.
9. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, the Bermuda grass and other ground cover shall be

established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.

10. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
11. For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
12. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
13. Irrigation with effluent shall be accomplished only when the area specified is not in use.
14. The permittee shall maintain a long term contract with the owner(s) of the land application site which is authorized for use in this permit, or own the land authorized for land application of treated effluent.
15. Permanent transmission lines shall be installed from the treatment system to each drainfield area.
16. Berms shall be constructed around the entire perimeter of the irrigation field to prevent runoff from leaving the irrigation fields and runoff from entering the irrigation fields.
17. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems.
18. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a minimum horizontal distance of 250 ft from a private well and a minimum horizontal distance of 500 ft from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.
19. Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage in accordance with 30 TAC §217.203 (c) and (d), Design Criteria for Natural Treatment Facilities. The permittee shall furnish certification signed and sealed by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above prior to use of the facilities. The ponds must be lined according to one of the following requirements.
 - a) Soil Liner: The soil liner shall contain clay-rich soil material (at least 30% of the liner material passing through a #200 mesh sieve, liquid limit greater than or equal to 30, and plasticity index greater than or equal to 15) along the sides and bottom of the pond. The liner material shall be compacted in lifts of no more than 8 inches to 95% standard proctor density at the optimum moisture content in accordance with

ASTM D 698 to achieve permeability equal to or less than 1×10^{-7} cm/sec. The liner shall be a minimum thickness of 3.0 feet.

- b) Synthetic/Plastic/Rubber Liner: The liner must be either a plastic or rubber membrane liner at least 40 mils in thickness which completely covers the sides and the bottom of the ponds, and which are not subject to degradation due to reaction with wastewater with which it will come into contact. If the liner material is vulnerable to ozone or ultraviolet deterioration, it shall be covered with a protective layer of soil of at least six inches. An under drain with a leachate detection and collection system is also required.
- c) Alternate Liner: The permittee shall submit plans for any other pond lining method. Pond liner plans must be approved in writing by the Executive Director of the TCEQ prior to pond construction.

The permittee submitted certification by a Texas-Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above. The certification was approved by the TCEQ on March 29, 2017.

- 20. The existing wastewater pond shall be maintained and operated in a manner that prevents unauthorized discharge to water in the state and contamination of groundwater.
- 21. At least two feet of freeboard shall be maintained in all wastewater ponds.
- 22. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the Permittee shall inspect the sides and bottom (if visible) of all wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed. A record of the monthly inspections shall be maintained in a field log and kept onsite for TCEQ inspection.
- 23. The liner shall be recertified by a Texas Licensed Professional Engineer ensuring that the liner for each pond meets the requirements noted in Special Provision No. 19 each time the liner undergoes repair or each time sediments are cleaned from the pond. Within 180 days of completion of repair or cleaning, liner certifications should be provided to the TCEQ Water Quality Assessment Team (MC-150) and to the Region 5 Office. A copy of the liner certification shall be kept on-site for future reference.
- 24. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203 and 30 TAC 309.13(d) since the facility overlies the recharge zone of an aquifer. The Permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC Region 5), and the TCEQ Enforcement Division (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texas-licensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203 and 30 TAC §309.13(d) since the facility is located on the recharge zone of an aquifer.
- 25. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ

personnel for inspection and review.

26. The permittee shall use cultural practices to promote and maintain the health and propagation of the Bermuda grass (warm season) and winter ryegrass (cool season) crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.
27. The physical condition of the land application fields will be monitored on a weekly basis. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation, etc., will be recorded in the field log kept onsite and corrective measures will be implemented within 24 hours of discovery.
28. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	Fellowship Church TCEQ Permit No. WQ0015097001
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	Renewal
Request:	Renewal with no changes
Authority:	Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 305, 309, 312, 319, and 30; and Commission policies.

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **ten years from the date of issuance**, according to 30 TAC Section 305.127(1)(C)(ii)(III), Conditions to be Determined for Individual Permits.

REASON FOR PROJECT PROPOSED

Fellowship Church has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0015097001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.04 million gallons per day (MGD) via surface irrigation of 18 acres of non-public access pastureland. The facility includes one storage ponds with a total surface area of 2.0 acres and total capacity of 21.7 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the Allaso Ranch Camp, a religious-oriented recreational and learning facility.

PROJECT DESCRIPTION AND LOCATION

The Allaso Ranch Camp Wastewater Treatment Facility consists of an activated sludge process plant using the extended aeration mode. Treatment units include two bar screens, two aeration basins, two final clarifiers, two aerobic sludge digesters, and two chlorine contact chambers. The facility is in operation.

The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located at 2302 Private Road 7850, in Wood County, Texas 75765.

The wastewater treatment facility and disposal site are located in the drainage basin of Sabine River Below Lake Tawakoni in Segment No. 0506 of the Sabine River Basin. No discharge of

pollutants into water in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period September 2023 through September 2025. The average of Daily Average value is computed by averaging of all 30-day average values for the reporting period for each parameter: flow, five-day biochemical oxygen demand (BOD₅), and total suspended solids (TSS).

<u>Parameter</u>	<u>Average of Daily Average</u>
Flow, MGD	0.18
BOD ₅ , mg/l	10
TSS, mg/l	18

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.04 MGD via surface irrigation of 18 acres of non-public access pastureland. The facility includes one storage ponds with a total surface area of 2.0 acres and total capacity of 21.7 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 2.49 acre-feet per year per acre irrigated. The irrigated crop include bermuda grass.

The effluent limitations in the draft permit, based on a daily average, are 20 mg/l biochemical oxygen demand (BOD₅) and 20 mg/l total suspended solids (TSS). The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit effluent limitations and monitoring requirements.

The Sludge Provisions, Special Provisions, and Standard Provisions have been revised in the draft permit.

Special Provision (S.P.) Nos. 9, 11, and 20 (S.P. No. 22 in the draft permit) in the existing permit have been revised in the draft permit, based on Agronomy and Geology compliance review.

S.P. Nos. 18, 20, 24, and 25 have been added to the draft permit, based on Agronomy and

Fellowship Church

Permit No. WQ0015097001

Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

Geology compliance review.

S.P. No. 2 in the existing permit has been updated to reflect the requirements of 30 TAC § 30.342, which does not allow renewal of a Class D operator's license for mechanical treatment plants.

The draft permit includes all updates based on the 30 TAC 312 rule change effective April 23, 2020.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on August 22, 2025, and additional information received on October 22, 2025.
2. Existing TCEQ permit: Permit No. WQ0015097001 issued on June 15, 2017.
3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive

Fellowship Church

Permit No. WQ0015097001

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Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Sujata Sinha at (512) 239-1963.

Sujata Sinha

Sujata Sinha
Municipal Permits Team
Domestic Wastewater Section (MC 148)

10/24/2025

Date