Administrative Package Cover Page

This file contains the following documents:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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.

The City of Rusk (CN600335616) operates the City of Rusk wastewater treatment plant (RN103000766), an activated sludge plant that operates in extended aeration mode. The facility is located at approximately 1.5 miles south of the intersection of 8th Street and Main Street, in Rusk, Cherokee County, Texas 75785. This application is for a renewal to discharge at an annual average flow of 1.75 million gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli.* Additional pollutants are included in the Domestic Technical Report 1.0, Section 7 Pollutant Analysis of Treated Effluent in the permit application package. Domestic Wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basin, 2 clarifiers, chlorine contact chamber, and 2 sludge drying beds.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010447001

APPLICATION. City of Rusk, 108 East 5th Street, Rusk, Texas 75785, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010447001 (EPA I.D. No. TX0054399) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,750,000 gallons per day. The domestic wastewater treatment facility is located approximately 1.5 miles south of the intersection of 8th Street and Main Street, near the city of Rusk, in Cherokee County, Texas 75785. The discharge route is from the plant site to One Eye Creek; thence to Box Creek; thence to Neches River Below Lake Palestine. TCEQ received this application on October 21, 2025. The permit application will be available for viewing and copying at Rusk City Hall, Front Desk, 108 East 5th Street, Rusk, in Cherokee County, Texas prior to the date this notice is published in the newspaper. The application and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-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=-95.153333,31.773611&level=18

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

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Rusk at the address stated above or by calling Mrs. Erin Crafton, AWWS, Inc., at 903-668-4133.

Issuance Date: December 9, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Rusk

PERMIT NUMBER (If new, leave blank): WQ0010447001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 10447001

EPA I.D. (TPDES only): TX 0054399

Expiration Date: 3/21/2026

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

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

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

City of Rusk

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

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

CN: 600335616

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

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

Title: Mayor Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mrs. Last Name, First Name: Crafton, Erin

Title: Vice President Credential: Click to enter text.

Organization Name: AWWS, Inc.

Mailing Address: 695 Shady Ln. City, State, Zip Code: Hallsville, TX 75650

Phone No.: 903-668-4133 E-mail Address: awwsinc@gmail.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Crafton, Travis

Title: Preparer Credential: Click to enter text.

Organization Name: AWWS, Inc

Mailing Address: 476 Shady Ln. City, State, Zip Code: Hallsville, TX 75650

Phone No.: 903-668-4133 E-mail Address: travis.crafton@yahoo.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Thompson, Thomas

Title: Director of Utilities Credential: Click to enter text.

Organization Name: City of Rusk

Mailing Address: 108 East 5th St. City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-810-0253 E-mail Address: tthompson@rusktx.org

B. Prefix: Mr. Last Name, First Name: Holcomb, Neil

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Rusk

Mailing Address: 108 East 5th St. City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-683-2213 E-mail Address: nholcomb@rusktx.org

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Ms. Last Name, First Name: Goff, Kala

Title: Accounts Reivable/HR Credential: Click to enter text.

Organization Name: City of Rusk

Mailing Address: 108 East 5th St. City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-683-2213 E-mail Address: vminton@rusktx.org

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

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

Prefix: Mr. Last Name, First Name: Thompson, Thomas

Title: Director of Utilities Credential: Click to enter text.

Organization Name: City of Rusk

Mailing Address: 108 East 5th St. City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-810-0253 E-mail Address: tthompson@rusktx.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Minton, Victoria

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Rusk

Mailing Address: 108 East 5th St. City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-683-2213 E-mail Address: vminton@rusktx.org

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mrs. Last Name, First Name: Crafton, Erin

Title: Vice President Credential: Click to enter text.

Organization Name: AWWS, Inc.

Mailing Address: 695 Shady Ln. City, State, Zip Code: Hallsville, TX 75650

Phone No.: 903-668-4133 E-mail Address: awwsinc@gmail.com

D. Public Viewing Information

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

Public building name: Rusk City Hall

Location within the building: Front Desk

Physical Address of Building: 108 East 5th St.

City: Rusk County: Cherokee

Contact (Last Name, First Name): Minton, Victoria

Phone No.: 903-683-2213 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☐ Yes ☒ No

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

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

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

Attachment: 2

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 103000766

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

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

City of Rusk Wastewater Treatment Facility

C. Owner of treatment facility: City of Rusk

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

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

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

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

Organization Name: City of Rusk

Mailing Address: 108 East 5th St. City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-683-2213 E-mail Address: tthompson@rusktx.org

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

Prefix: N/A Last Name, First Name: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Rusk

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: Click to enter text.

C. County in which the disposal site is located: Click to enter text.

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

Click to enter text.

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify**:** Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010447001

Applicant: City of Rusk

Certification:

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

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

Signatory name (typed or printed): Ben Middlebrooks

Signatory title: Mayor

Signature:_____Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____day of_____, 20_____.

My commission expires on the_____day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: 3

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600335616		**RN 103000766**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 9/14/2025

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

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

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

City of Rusk

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

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

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

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

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

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

15. Mailing Address: 205 S. Main St.

City	Rusk	**State**	TX	**ZIP**	75785	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	vminton@rusktx.org

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(903) 683-2213		(903) 683-5964

SECTION III: Regulated Entity Information

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

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

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

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

City of Rusk Wastewater Treatment Plant

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

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

25. Description to Physical Location:	The plant site is approximately 0.35 miles west of FM 752 and approximately 1.5 miles south of Midtown Road in Cherokee County, Texas.

26. Nearest City	State	Nearest ZIP Code
Rusk	TX	75785

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

27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	46	25	95	09	12

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
9199		921190	

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

City Government

34. Mailing Address:	**205 S. Main St.**						
	City	**Rusk**	**State**	**TX**	**ZIP**	**75785**	**ZIP + 4**
35. E-Mail Address:	**vminton@rusktx.org**						

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(903) 683-2213		**(903) 683-5964**

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

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

SECTION IV: Preparer Information

40. Name:	Erin Crafton	**41. Title:**	Vice President

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(903 **)** 668-4133		**(** 903 **)** 668-1095	awwsinc@gmail.com

SECTION V: Authorized Signature

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

Company:	City of Rusk	**Job Title:**	Preparer
Name *(In Print):*	Erin Crafton	**Phone:**	**(** 903 **)** 668- **4133**
Signature:	Erin Crafton	**Date:**	10/10/2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

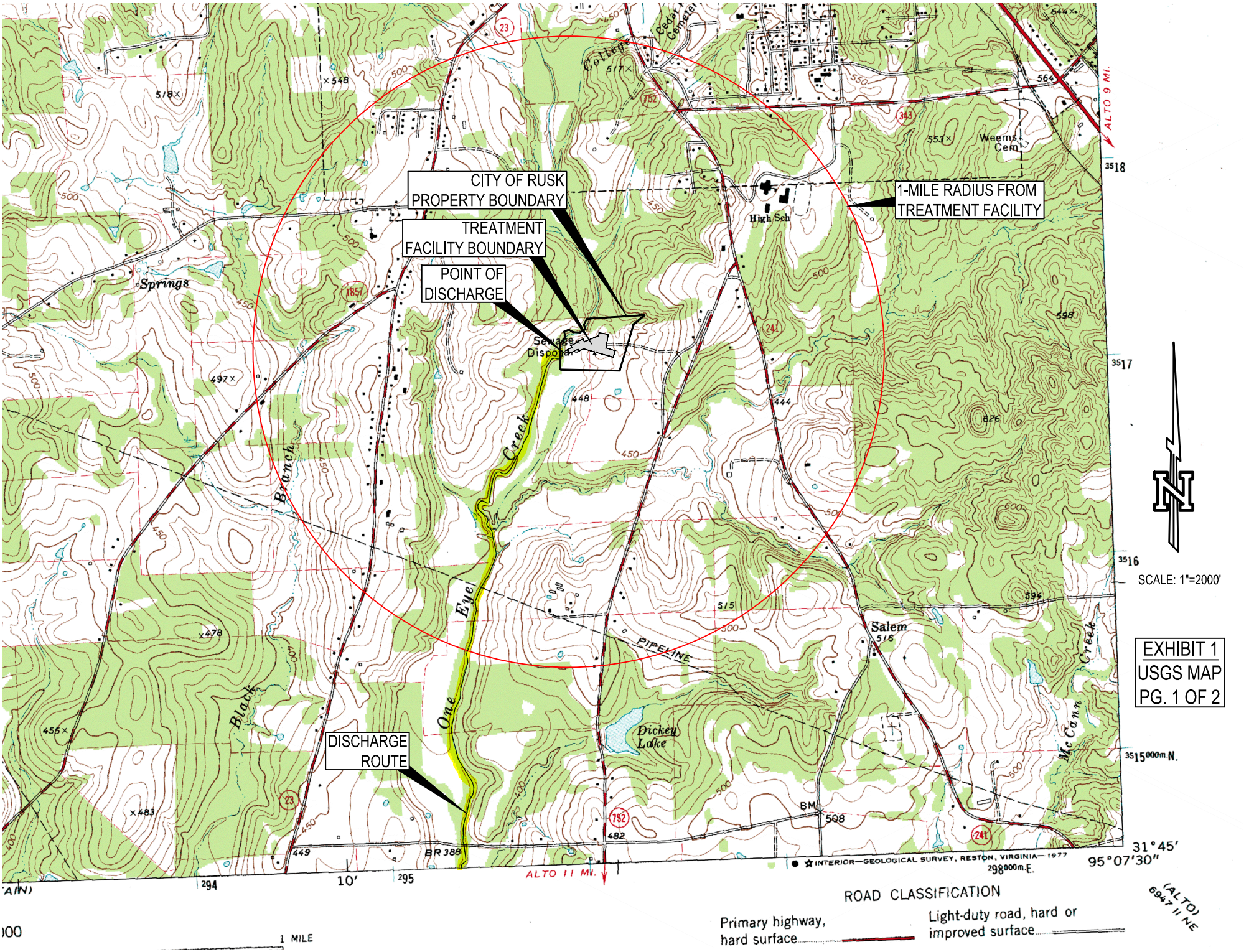
SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

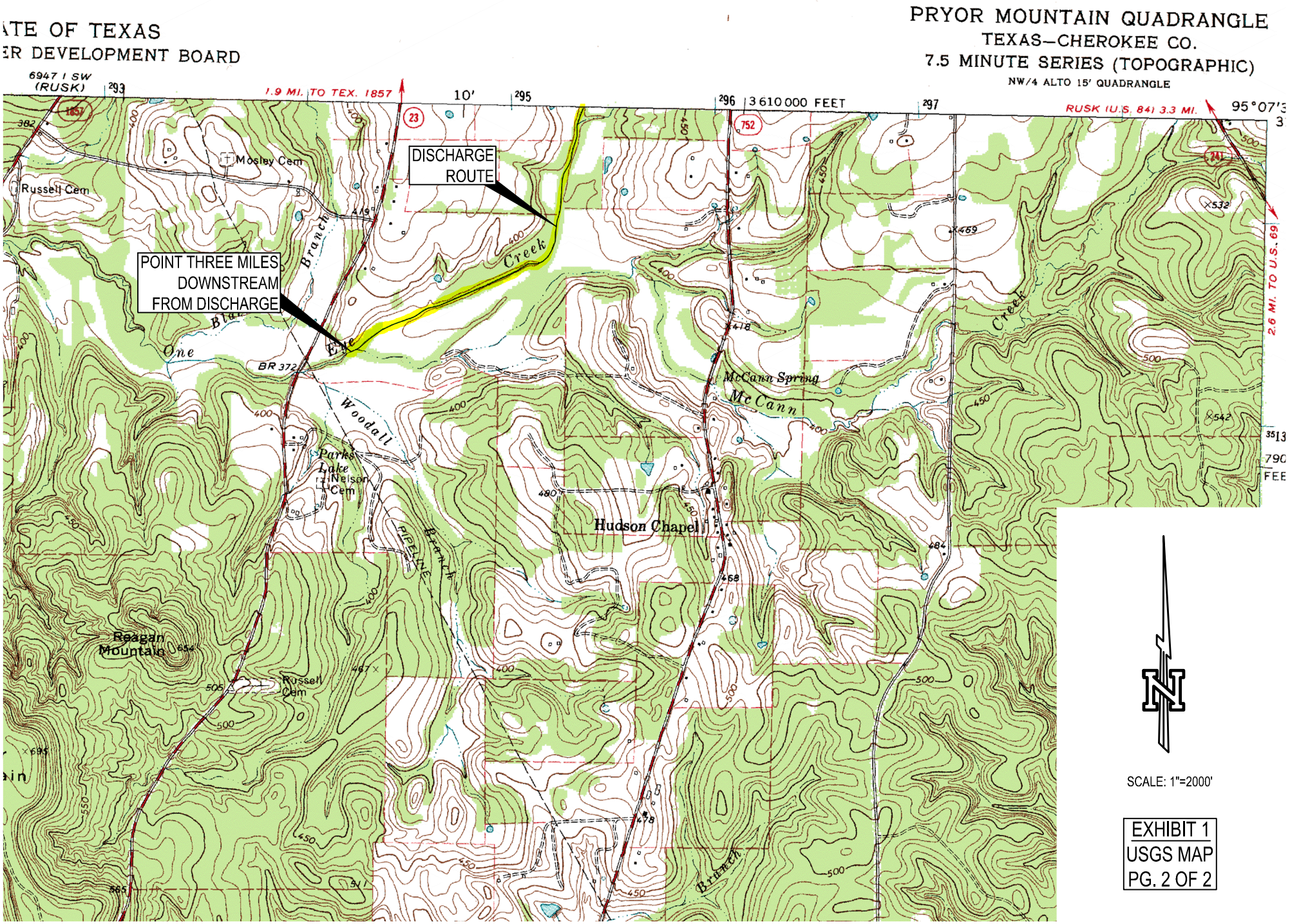
Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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.

The City of Rusk (CN600335616) operates the City of Rusk wastewater treatment plant (RN103000766), an activated sludge plant that operates in extended aeration mode. The facility is located at approximately 0.35 miles west of FM 752 and approximately 1.5 miles south of Midtown Road, in Rusk, Cherokee County, Texas 75785. This application is for a renewal to discharge at an annual average flow of 1.75 million gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli.* Additional pollutants are included in the Domestic Technical Report 1.0, Section 7 Pollutant Analysis of Treated Effluent in the permit application package. Domestic Wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basin, 2 clarifiers, chlorine contact chamber, and 2 sludge drying beds.


CITY OF RUSK
PROPERTY BOUNDARY
TREATMENT
FACILITY BOUNDARY
POINT OF
DISCHARGE
1-MILE RADIUS FROM
TREATMENT FACILITY
DISCHARGE
ROUTE
Springs
Black Branch
One Eye Creek
McCann Creek
Dickey Lake
Salem
High Sch
Weems Cem
College
Cedar
Sewage
Disposal
PIPELINE
BR 388
ALTO 9 MI.
ALTO 11 MI.
SCALE: 1"=2000'
EXHIBIT 1
USGS MAP
PG. 1 OF 2
ROAD CLASSIFICATION
Primary highway, hard surface
Light-duty road, hard or improved surface
1 MILE
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1977
31°45'
95°07'30"
3515000m N.
298000m E.
(ALTO)
6947 II NE


ATE OF TEXAS
ER DEVELOPMENT BOARD
PRYOR MOUNTAIN QUADRANGLE
TEXAS—CHEROKEE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 ALTO 15' QUADRANGLE
6947 I SW
(RUSK)
1.9 MI. TO TEX. 1857
10'
3 610 000 FEET
RUSK (U.S. 841) 3.3 MI.
95°07'3
2.6 MI. TO U.S. 69
DISCHARGE ROUTE
POINT THREE MILES DOWNSTREAM FROM DISCHARGE
Mosley Cem
Russell Cem
Branch
Creek
One
Eye
BR 372
Woodall
Parks Lake
Nelson Cem
McCann Spring
Mc Cann
Hudson Chapel
PIPELINE
Reagan Mountain
Russell Cem
SCALE: 1"=2000'
EXHIBIT 1
USGS MAP
PG. 2 OF 2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Rusk

   Permit No. WQ00 10447001 EPA ID No. TX 0054399

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

   The plant site is approximately 0.35 miles west of FM 752 and approximately 1.5 miles south of Midtown Road in Cherokee County, Texas.

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

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

First and Last Name: Thomas Thompson

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Public Works Director

Mailing Address: 205 S. Main

City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-683-2213 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: tthompson@rusktx.org

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

N/A. Private Property Owner

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

To One Eye Creek; thence to Box Creek; thence to the Neches River below Lake Palestine in Segment No. 0604 of the Neches River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

n/a

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

n/a

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

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

Click here to enter text.

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

Click here to enter text.

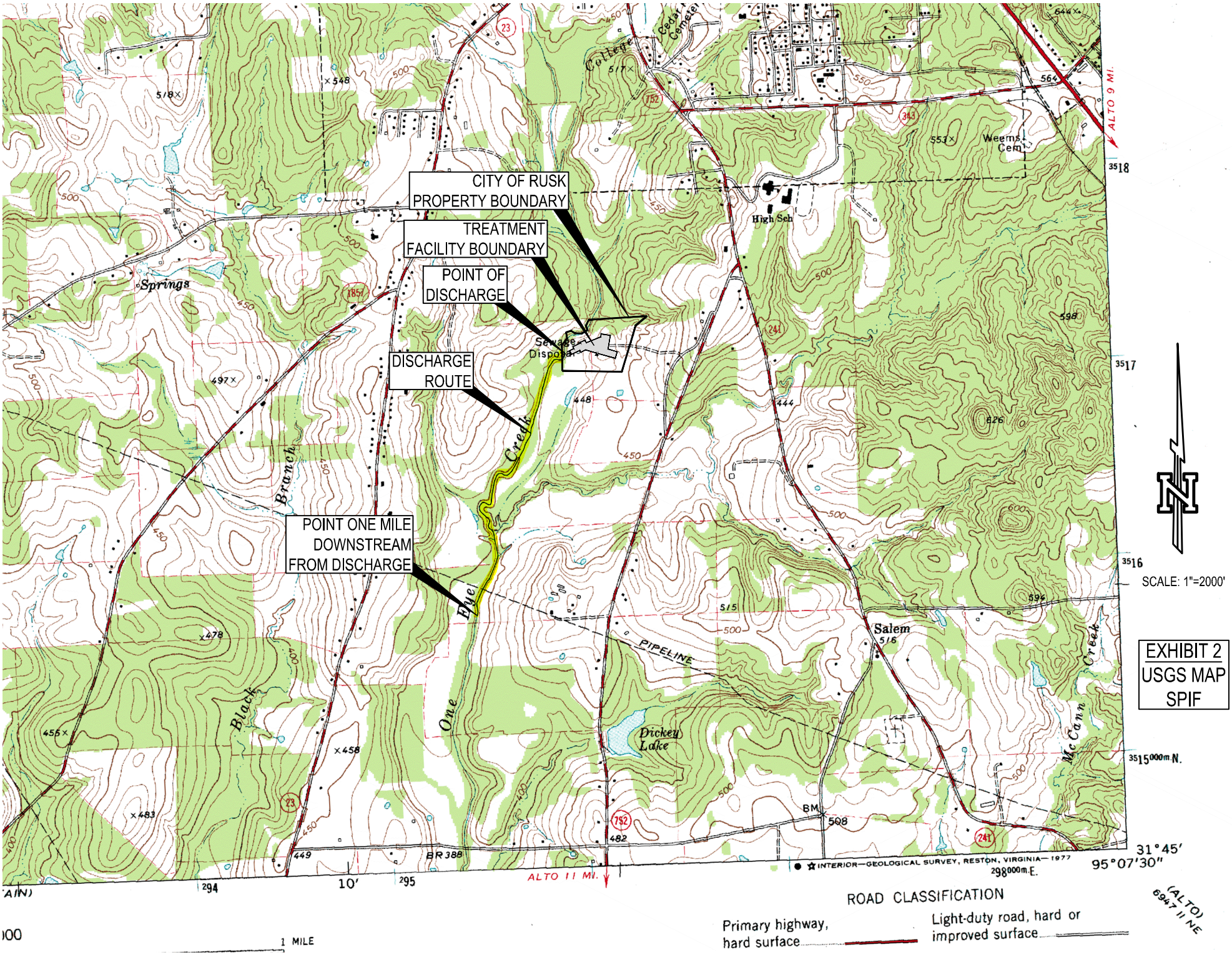
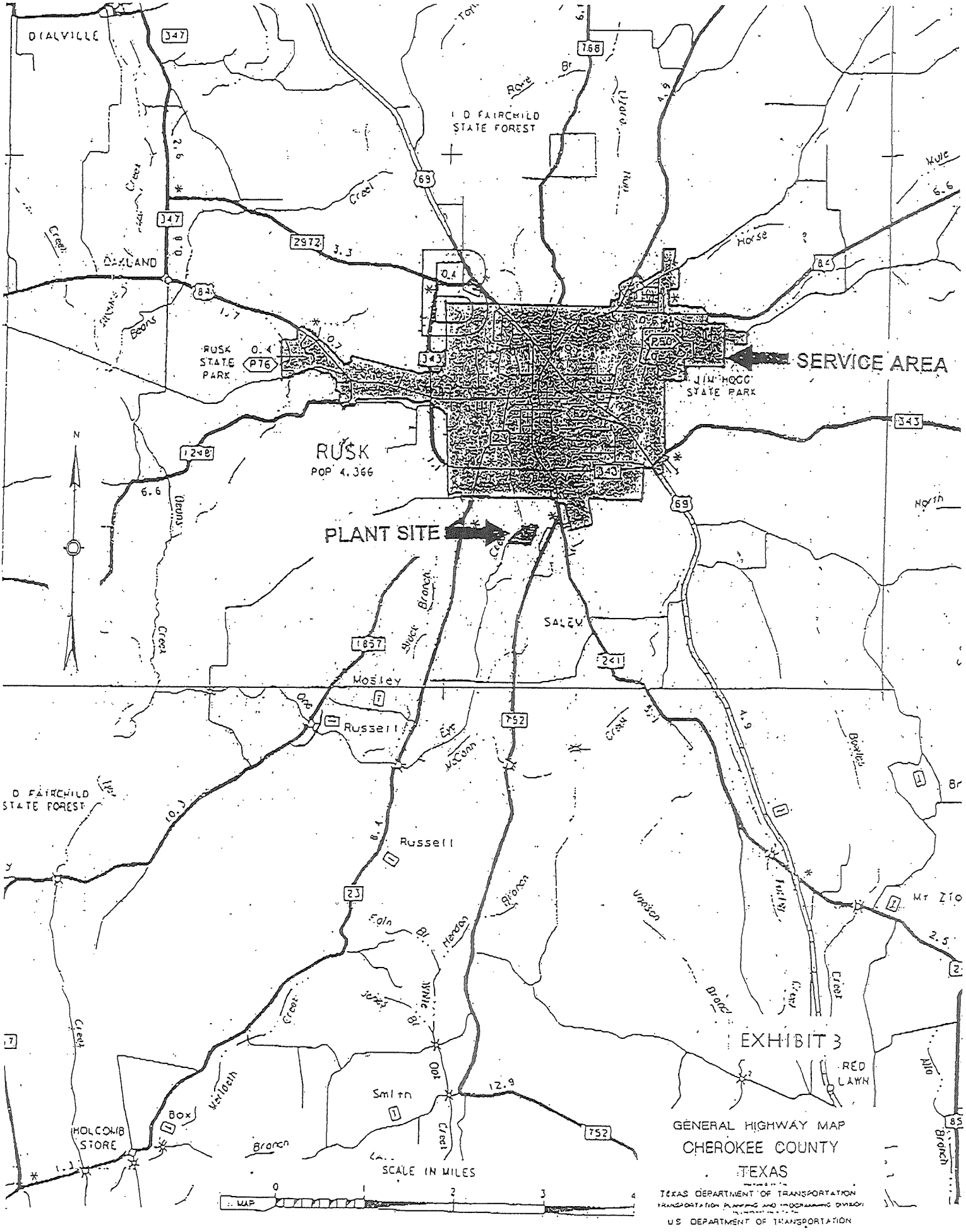


EXHIBIT 2
USGS MAP
SPIF


DIALVILLE
347
I D FAIRCHILD STATE FOREST
69
OAKLAND
2972
84
RUSK STATE PARK
P76
SERVICE AREA
JIM HOGG STATE PARK
343
RUSK
POP 4,366
PLANT SITE
N
1248
1857
Mosley
Russell
752
SALEM
241
Russell
23
Smith
100
12.9
HOLCOMB STORE
Box
Broach
MT ZION
RED LAWN
EXHIBIT 3
GENERAL HIGHWAY MAP
CHEROKEE COUNTY
TEXAS
TEXAS DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PLANNING AND PROGRAMMING DIVISION
US DEPARTMENT OF TRANSPORTATION
SCALE IN MILES
0
1
2
3
4
MAP

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 1.750

2-Hr Peak Flow (MGD): 4.38

Estimated construction start date: unknown

Estimated waste disposal start date: unknown

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 1.750

2-Hr Peak Flow (MGD): 4.38

Estimated construction start date: unknown

Estimated waste disposal start date: unknown

D. Current Operating Phase

Provide the startup date of the facility: 12/01/1998

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

The Rusk WWTP is an activated sludge plant operated in the extended aeration mode. The influent enters the plant through a bar screen, pumped to the race track where it is aerated and mixed with the mixed liquor. The mixed liquor is then sent to the clarifiers (2) where sludge is settled, returned to the race track, or if needed, wasted to sludge drying beds. The clear effluent from the clarifiers goes to a chlorine contact chamber, then dechlorinated, then discharged through a Parshall flume where the flow is recorded by a sonic flow meter

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)
Bar Screen	1	7.5 ft L x 2 ft W
Circular Clarifier	1	65 ft dia. X 10 ft D
Circular Clarifier	1	65 ft dia. X 14 ft D
Aeration Basin	1	350 ft x 8 ft x 8 ft
Chlorine Contact Chamber	1	37 ft x 37 ft x 6 ft
Sludge Drying Beds	2	100 ft x 40 ft

C. Process Flow Diagram

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

Attachment: Exhibit 4

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

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

- Latitude: 31 deg, 46 min., 25 sec
- Longitude: 95 deg, 09 min, 12 sec

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

- Latitude: Click to enter text.
- Longitude: Click to enter text.

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: Exhibit 5

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

Residences and businesses of the City of Rusk.

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: unknown

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

The permit issued on May 10, 1996, granted the permittee a variance to the buffer zone requirements in accordance with 30 TAC Section 309.13(e)(1)(C).

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*.

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☒ Yes ☐ No

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

TXR05 5BN98 or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☒ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<2.00		1	G	08/19/25 @ 9:00 am
Total Suspended Solids, mg/l	8.50		1	G	08/19/25 @ 9:00 am
Ammonia Nitrogen, mg/l	<0.100		1	G	08/19/25 @ 9:00 am
Nitrate Nitrogen, mg/l	21.5		1	G	08/19/25 @ 9:00 am
Total Kjeldahl Nitrogen, mg/l	1.17				08/20/25 @ 6:18 pm
Sulfate, mg/l	48.4				08/20/25 @ 6:18 pm
Chloride, mg/l	41.0		1	G	07/29/25 @ 10:00 am
Total Phosphorus, mg/l	2.39		1	G	08/19/25 @ 9:00 am
pH, standard units	7.81		1	G	08/19/25 @ 9:00 am
Dissolved Oxygen*, mg/l	6.94		1	G	08/19/25 @ 9:00 am
Chlorine Residual, mg/l	0.0400		1	G	08/19/25 @ 9:00 am
E.coli (CFU/100ml) freshwater	<1.00				08/19/25 @ 8:00 am
Entercocci (CFU/100ml) saltwater	N/A				
Total Dissolved Solids, mg/l	778		1	G	07/29/25 @ 10:00 am
Electrical Conductivity, µmohs/cm, †	N/A				
Oil & Grease, mg/l	14.9		1	G	08/19/25 @ 9:00 am
Alkalinity ($CaCO_3$)*, mg/l	N/A				

*TPDES permits only
†TLAP permits only

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

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Michael Beck and Thomas Thompson

Facility Operator's License Classification and Level: WW,Class C-Beck & WW,Class A-Thompson

Facility Operator's License Number: WW0045250 (Beck) & WW0005530 (Thompson)

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)

☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

☐ Sludge Lagoon

☐ Temporary Storage (< 2 years)

☐ Long Term Storage (>= 2 years)

☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: Royal Oaks Landfill

TCEQ permit or registration number: Reg. #1614A

County where disposal site is located: Cherokee

E. Transportation method

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

Name of the hauler: Olympic Waste

Hauler registration number: 22215

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal

(Instructions Page 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.

- Site map:

  Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Ben Middlebrooks

Title: Mayor

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: One Eye Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☒ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Box Creek and the Neches River

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

N/A

E. Normal dry weather characteristics

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

Clear Flowing Stream

Date and time of observation: 06/08/25

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Date of study: 05/31/1994 Time of study: 1:00 pm

Stream name: One Eye Creek

Location: South of Rusk, TX in Cherokee County

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☒ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

Number of stream bends that are well defined: 10

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: 7

Number of riffles: 27

Evidence of flow fluctuations (check one):

☒ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	Transect location	Water surface width (ft)	Stream depths (ft) at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Run.	At WWTP	7	0.5, 0.5, 0.5, 0.5
Run	500' Downstream	10	0.3, 0.5, 0.5, 0.6, 0.5
Glide	1000' Downstream	18	0.2, 0.3, 0.3, 0.3, 0.3, 0.2
Glide	1500' Downstream	12	0.7, 0.7, 0.6
Glide	2000' Downstream	20	0.7, 0.7, 0.2, 0.2, 0.4, 0.4
Glide	2500' Downstream	12	0.7, 0.7, 0.2, 0.2, 0.4, 0.4
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: 0.0035

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 9

Length of stream evaluated, in feet: 2500

Number of lateral transects made: 6

Average stream width, in feet: 11.2

Average stream depth, in feet: 0.47

Average stream velocity, in feet/second: 0.49

Instantaneous stream flow, in cubic feet/second: 2.6

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): floating chip

Size of pools (large, small, moderate, none): small

Maximum pool depth, in feet: 0.7

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☒

Date and time sample(s) collected: 08/19/25 @ 9:00 AM

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	ND			50
Aldrin	ND			0.01
Aluminum	90.2			2.5
Anthracene	ND			10
Antimony	ND			5
Arsenic	1.36			0.5
Barium	16.7			3
Benzene	ND			10
Benzidine	ND			50
Benzo(a)anthracene	ND			5
Benzo(a)pyrene	ND			5
Bis(2-chloroethyl)ether	ND			10
Bis(2-ethylhexyl)phthalate	ND			10
Bromodichloromethane	10.7			10
Bromoform	ND			10
Cadmium	ND			1
Carbon Tetrachloride	ND			2
Carbaryl	ND			5
Chlordane*	ND			0.2
Chlorobenzene	ND			10
Chlorodibromomethane	1.88			10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	48.6			10
Chlorpyrifos	ND			0.05
Chromium (Total)	1.09			3
Chromium (Tri) **(*1)**	ND			N/A
Chromium (Hex)	ND			3
Copper	19.9			2
Chrysene	ND			5
p-Chloro-m-Cresol	ND			10
4,6-Dinitro-o-Cresol	ND			50
p-Cresol	ND			10
Cyanide **(*2)**	ND			10
4,4'- DDD	ND			0.1
4,4'- DDE	ND			0.1
4,4'- DDT	ND			0.02
2,4-D	ND			0.7
Demeton (O and S)	ND			0.20
Diazinon	ND			0.5/0.1
1,2-Dibromoethane	ND			10
m-Dichlorobenzene	ND			10
o-Dichlorobenzene	ND			10
p-Dichlorobenzene	ND			10
3,3'-Dichlorobenzidine	ND			5
1,2-Dichloroethane	ND			10
1,1-Dichloroethylene	ND			10
Dichloromethane	ND			20
1,2-Dichloropropane	ND			10
1,3-Dichloropropene	ND			10
Dicofol	ND			1
Dieldrin	ND			0.02
2,4-Dimethylphenol	ND			10
Di-n-Butyl Phthalate	ND			10
Diuron	ND			0.09
Endosulfan I (alpha)	ND			0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	ND			0.02
Endosulfan Sulfate	ND			0.1
Endrin	ND			0.02
Epichlorohydrin	ND			---
Ethylbenzene	ND			10
Ethylene Glycol	ND			---
Fluoride	1370			500
Guthion	ND			0.1
Heptachlor	ND			0.01
Heptachlor Epoxide	ND			0.01
Hexachlorobenzene	ND			5
Hexachlorobutadiene	ND			10
Hexachlorocyclohexane (alpha)	ND			0.05
Hexachlorocyclohexane (beta)	ND			0.05
gamma-Hexachlorocyclohexane (Lindane)	ND			0.05
Hexachlorocyclopentadiene	ND			10
Hexachloroethane	ND			20
Hexachlorophene	ND			10
4,4'-Isopropylidenediphenol	ND			1
Lead	ND			0.5
Malathion	ND			0.1
Mercury	0.0046			0.005
Methoxychlor	ND			2
Methyl Ethyl Ketone	ND			50
Methyl tert-butyl ether	ND			---
Mirex	ND			0.02
Nickel	1.9			2
Nitrate-Nitrogen	21500			100
Nitrobenzene	ND			10
N-Nitrosodiethylamine	ND			20
N-Nitroso-di-n-Butylamine	ND			20
Nonylphenol	ND			333

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Parathion (ethyl)	ND			0.1
Pentachlorobenzene	ND			20
Pentachlorophenol	ND			5
Phenanthrene	ND			10
Polychlorinated Biphenyls (PCB's) (*3)	ND			0.2
Pyridine	ND			20
Selenium	ND			5
Silver	ND			0.5
1,2,4,5-Tetrachlorobenzene	ND			20
1,1,2,2-Tetrachloroethane	ND			10
Tetrachloroethylene	ND			10
Thallium	ND			0.5
Toluene	ND			10
Toxaphene	ND			0.3
2,4,5-TP (Silvex)	ND			0.3
Tributyltin (see instructions for explanation)	N/A			0.01
1,1,1-Trichloroethane	ND			10
1,1,2-Trichloroethane	ND			10
Trichloroethylene	ND			10
2,4,5-Trichlorophenol	ND			50
TTHM (Total Trihalomethanes)	61.18			10
Vinyl Chloride	ND			10
Zinc	30.4			5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak–acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☒

Date and time sample(s) collected: 08/19/25 @ 9:00 AM

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	ND			5
Arsenic	1.36			0.5
Beryllium	ND			0.5
Cadmium	ND			1
Chromium (Total)	1.09			3
Chromium (Hex)	ND			3
Chromium (Tri) **(*1)**	ND			N/A
Copper	19.9			2
Lead	ND			0.5
Mercury	<0.005			0.005
Nickel	1.9			2
Selenium	ND			5
Silver	ND			0.5
Thallium	ND			0.5
Zinc	30.4			5
Cyanide **(*2)**	ND			10
Phenols, Total	24.0			10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak–acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	ND			50
Acrylonitrile	ND			50
Benzene	ND			10
Bromoform	ND			10
Carbon Tetrachloride	ND			2
Chlorobenzene	ND			10
Chlorodibromomethane	1.88			10
Chloroethane	ND			50
2-Chloroethylvinyl Ether	ND			10
Chloroform	48.6			10
Dichlorobromomethane [Bromodichloromethane]	10.7			10
1,1-Dichloroethane	ND			10
1,2-Dichloroethane	ND			10
1,1-Dichloroethylene	ND			10
1,2-Dichloropropane	ND			10
1,3-Dichloropropylene [1,3-Dichloropropene]	ND			10
1,2-Trans-Dichloroethylene	ND			10
Ethylbenzene	ND			10
Methyl Bromide	ND			50
Methyl Chloride	ND			50
Methylene Chloride	ND			20
1,1,2,2-Tetrachloroethane	ND			10
Tetrachloroethylene	ND			10
Toluene	ND			10
1,1,1-Trichloroethane	ND			10
1,1,2-Trichloroethane	ND			10
Trichloroethylene	ND			10
Vinyl Chloride	ND			10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	ND			10
2,4-Dichlorophenol	ND			10
2,4-Dimethylphenol	ND			10
4,6-Dinitro-o-Cresol	ND			50
2,4-Dinitrophenol	ND			50
2-Nitrophenol	ND			20
4-Nitrophenol	ND			50
P-Chloro-m-Cresol	ND			10
Pentalchlorophenol	ND			5
Phenol	ND			10
2,4,6-Trichlorophenol	ND			10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	ND			10
Acenaphthylene	ND			10
Anthracene	ND			10
Benzidine	ND			50
Benzo(a)Anthracene	ND			5
Benzo(a)Pyrene	ND			5
3,4-Benzofluoranthene	ND			10
Benzo(ghi)Perylene	ND			20
Benzo(k)Fluoranthene	ND			5
Bis(2-Chloroethoxy)Methane	ND			10
Bis(2-Chloroethyl)Ether	ND			10
Bis(2-Chloroisopropyl)Ether	ND			10
Bis(2-Ethylhexyl)Phthalate	ND			10
4-Bromophenyl Phenyl Ether	ND			10
Butyl benzyl Phthalate	ND			10
2-Chloronaphthalene	ND			10
4-Chlorophenyl phenyl ether	ND			10
Chrysene	ND			5
Dibenzo(a,h)Anthracene	ND			5
1,2-(o)Dichlorobenzene	ND			10
1,3-(m)Dichlorobenzene	ND			10
1,4-(p)Dichlorobenzene	ND			10
3,3-Dichlorobenzidine	ND			5
Diethyl Phthalate	ND			10
Dimethyl Phthalate	ND			10
Di-n-Butyl Phthalate	ND			10
2,4-Dinitrotoluene	ND			10
2,6-Dinitrotoluene	ND			10
Di-n-Octyl Phthalate	ND			10
1,2-Diphenylhydrazine (as Azo-benzene)	ND			20
Fluoranthene	ND			10

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

Table 4.0(2)E – Pesticides

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

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☒ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non–substantial modifications

Have there been any **non–substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☒ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☒ No

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

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

A. General information

Company Name: N/A

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Click to enter text.

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

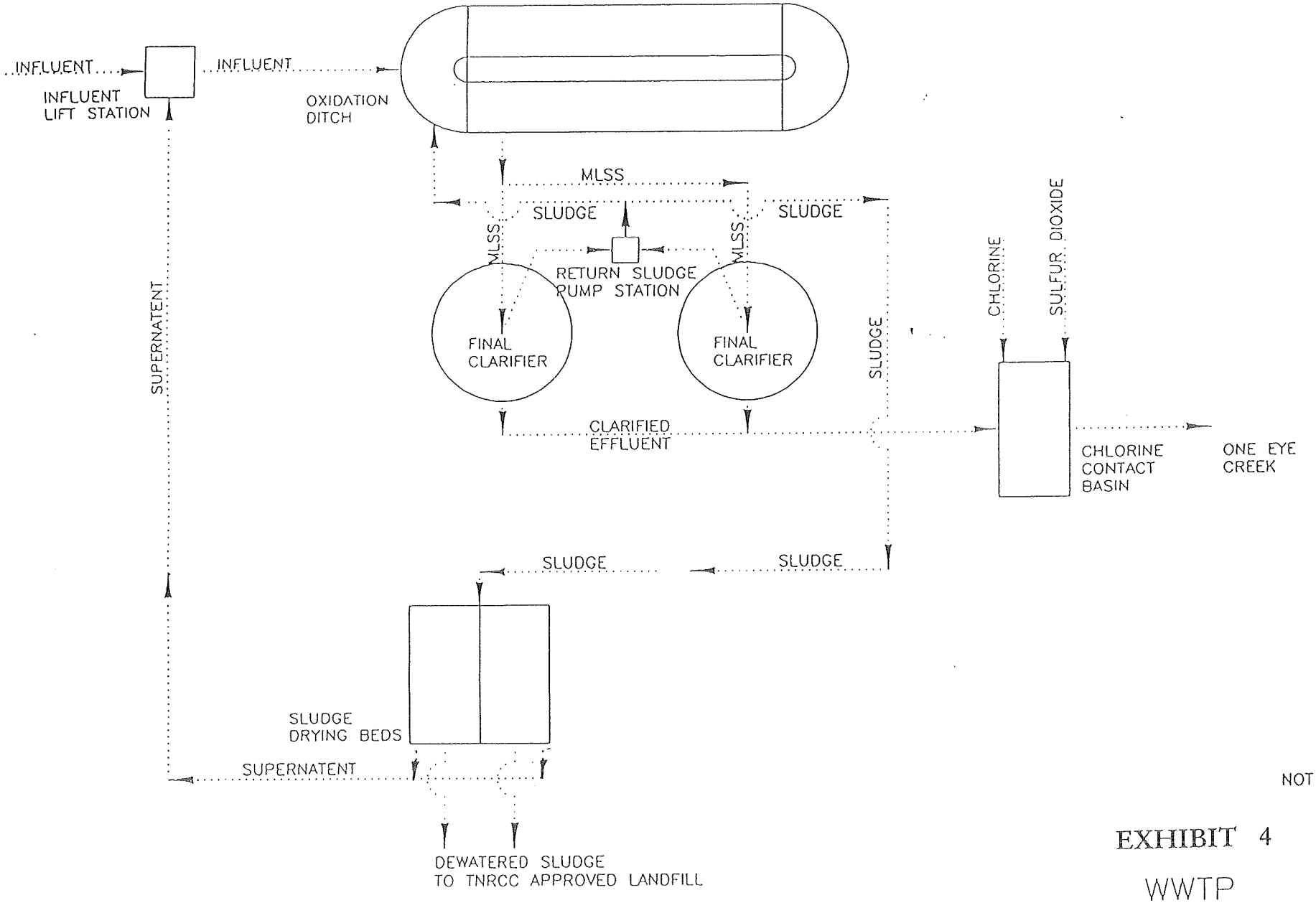
F. Industrial user interruptions

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

☐ Yes ☐ No

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

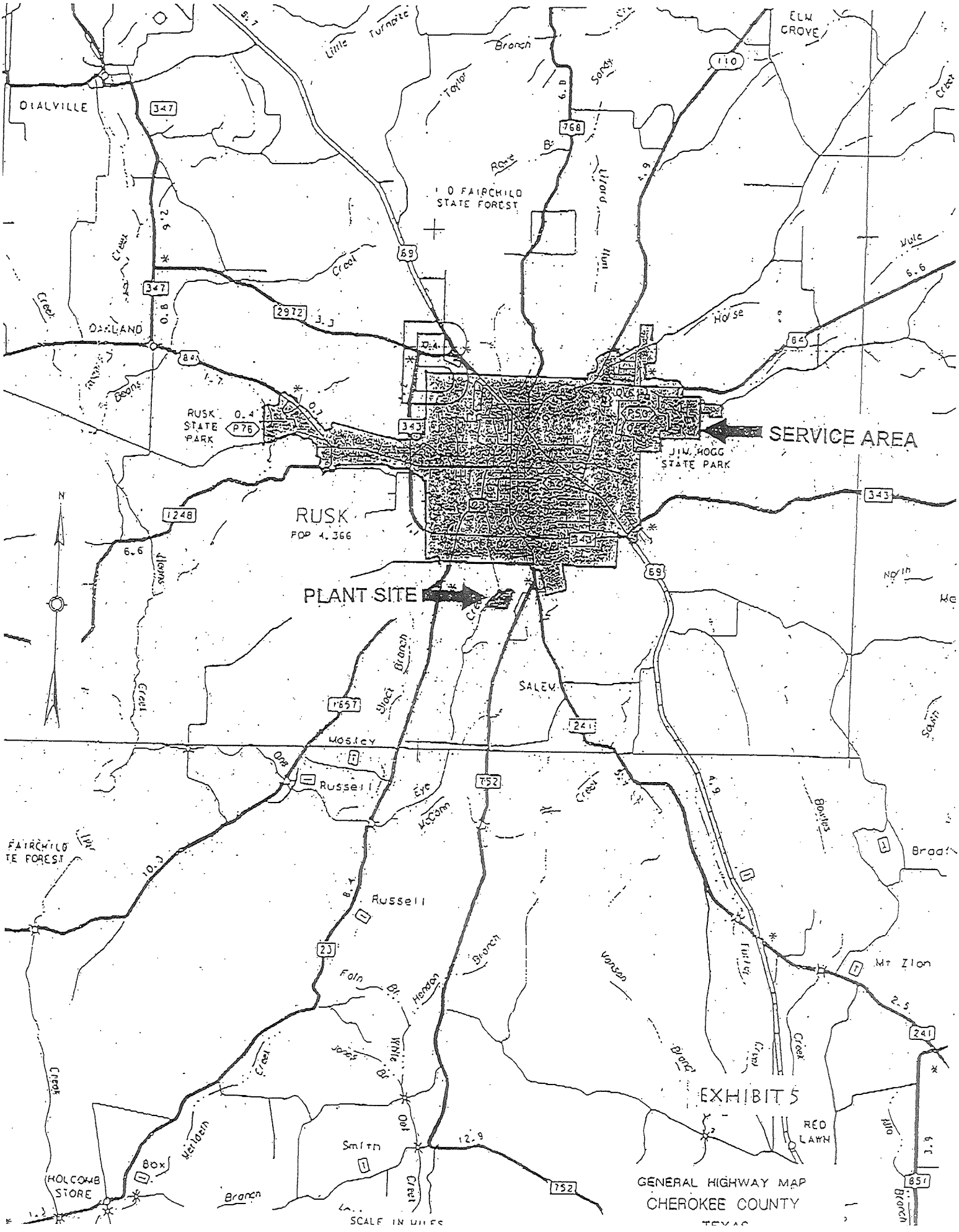
Click to enter text.



NOT TO SCALE

EXHIBIT 4

WWTP
PROCESS FLOW SCHEMATIC


DIALVILLE
OAKLAND
RUSK
POP 4,366
RUSK STATE PARK
JIM HOGG STATE PARK
SERVICE AREA
PLANT SITE
SALEM
Mosley
Russell
Smith
HOLCOMB STORE
RED LAWN
Mt Zion
ELM GROVE
347
69
84
343
1248
1857
241
752
768
110
2972
EXHIBIT 5
GENERAL HIGHWAY MAP
CHEROKEE COUNTY
TEXAS
SCALE IN MILES

AWWS

City of Rusk 205 S. Main Rusk Texas, 75785	Project: Day 2 Project Number: [none] Project Manager: City of Rusk	**Reported:** 03-Oct-25 23:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled
Rusk - Eff 001 - Day 2	A507447-01	Water	29-Jul-25 10:00
Rusk - Eff 001 - Day 2	A508304-01	Water	19-Aug-25 09:00
Rusk - Ecoli	A508304-02	Water	19-Aug-25 08:00

Erin Crafton

Erin Crafton For Sara Braun, Secretary/Treasurer

A507447-01 (Water) Rusk - Eff 001 - Day 2 7/29/25 10:00

Analyte	Result	Rpt Lmt	Units	Batch	Analyzed	Method	Notes
Chloride	**41.0**	5.00	mg/L	2535029	7/31/25 10:15	SM 4500CL G	
Total Dissolved Solids	**778**	10.0	mg/L	2531005	7/30/25 10:50	EPA 160.1	

A508304-01 (Water) Rusk - Eff 001 - Day 2 8/19/25 9:00

Analyte	Result	Rpt Lmt	Units	Batch	Analyzed	Method	Notes
Field pH	**7.81**		pH Units	2540028	8/19/25 9:00	EPA 150.1	CP
Chlorine Residual	**0.0400**	0.0100	mg/L	2540028	8/19/25 9:00	SM 4500CL G	CP
Phosphorus	**2.39**	0.0192	mg/L	2539035	9/26/25 18:22	EPA 200.7	
Carbonaceous BOD	**ND**	2.00	mg/L	2534036	8/20/25 15:50	SM 5210B	
Total Suspended Solids	**8.50**	1.00	mg/L	2534041	8/22/25 15:20	SM 2540 D	
Ammonia as N	**ND**	0.100	mg/L	2535036	8/28/25 14:50	4500NH3D	
Field Dissolved Oxygen	**6.94**		mg/L	2540028	8/19/25 9:00	SM4500O G	CP
Oil & Grease	**14.9**	2.00	mg/L	2535021	9/4/25 6:00	EPA 1664A	

A508304-02 (Water) Rusk - Ecoli 8/19/25 8:00

Analyte	Result	Rpt Lmt	Units	Batch	Analyzed	Method	Notes
E. Coli	**ND**	1.00	MPN/100 mL	2534023	8/19/25 16:00	M9223BColile	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2539035 - EPA 200.7										
Blank (2539035-BLK1)				Prepared: 25-Sep-25 Analyzed: 26-Sep-25						
Phosphorus	ND	0.0192	mg/L							
Blank (2539035-BLK2)				Prepared: 25-Sep-25 Analyzed: 26-Sep-25						
Phosphorus	ND	0.0192	mg/L							

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2531005 - No Prep - WetChem										
Blank (2531005-BLK1)				Prepared & Analyzed: 29-Jul-25						
Total Dissolved Solids	ND	10.0	mg/L							
LCS (2531005-BS1)				Prepared & Analyzed: 29-Jul-25						
Total Dissolved Solids	692	10.0	mg/L	694		99.7	85-115			
Duplicate (2531005-DUP1)		**Source: A507381-01**		Prepared & Analyzed: 29-Jul-25						
Total Dissolved Solids	299	10.0	mg/L		300			0.334	25	
Batch 2534036 - No Prep - WetChem										
Blank (2534036-BLK1)				Prepared & Analyzed: 20-Aug-25						
Carbonaceous BOD	ND	2.00	mg/L							
Blank (2534036-BLK2)				Prepared & Analyzed: 20-Aug-25						
Carbonaceous BOD	ND	2.00	mg/L							
LCS (2534036-BS1)				Prepared & Analyzed: 20-Aug-25						
Carbonaceous BOD	187	2.00	mg/L				4.5959-115.4			
Duplicate (2534036-DUP1)		**Source: A508318-01**		Prepared & Analyzed: 20-Aug-25						
Carbonaceous BOD	ND	2.00	mg/L		2.30				25	
Duplicate (2534036-DUP2)		**Source: A508316-01**		Prepared & Analyzed: 20-Aug-25						
Carbonaceous BOD	ND	2.00	mg/L		ND				25	
Batch 2534041 - No Prep - WetChem										
Blank (2534041-BLK1)				Prepared & Analyzed: 22-Aug-25						
Total Suspended Solids	ND	1.00	mg/L							
LCS (2534041-BS1)				Prepared & Analyzed: 22-Aug-25						
Total Suspended Solids	70.0	1.00	mg/L	64.6		108	80-120			
Duplicate (2534041-DUP1)		**Source: A508305-03**		Prepared & Analyzed: 22-Aug-25						
Total Suspended Solids	95.0	1.00	mg/L		87.0			8.79	200	

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2535021 - No Prep - WetChem										
Blank (2535021-BLK1)				Prepared & Analyzed: 04-Sep-25						
Oil & Grease	ND	2.00	mg/L							
LCS (2535021-BS1)				Prepared & Analyzed: 04-Sep-25						
Oil & Grease	40.1	2.00	mg/L	40.0		100	70-130			
Duplicate (2535021-DUP1)		**Source: A508429-02**		Prepared & Analyzed: 04-Sep-25						
Oil & Grease	ND	2.00	mg/L		ND				25	
Matrix Spike (2535021-MS1)		**Source: A508431-01**		Prepared & Analyzed: 04-Sep-25						
Oil & Grease	74.0	2.00	mg/L	40.0	35.8	95.5	70-130			
Batch 2535029 - No Prep - WetChem										
Blank (2535029-BLK1)				Prepared & Analyzed: 31-Jul-25						
Chloride	ND	5.00	mg/L							
LCS (2535029-BS1)				Prepared & Analyzed: 31-Jul-25						
Chloride	48.0	5.00	mg/L				0-200			
Duplicate (2535029-DUP1)		**Source: A507124-01**		Prepared & Analyzed: 31-Jul-25						
Chloride	32.0	5.00	mg/L		34.0			6.06	25	
Matrix Spike (2535029-MS1)		**Source: A507124-01**		Prepared & Analyzed: 31-Jul-25						
Chloride	88.0	5.00	mg/L		34.0		85-115			
Batch 2535036 - No Prep - WetChem										
Blank (2535036-BLK1)				Prepared & Analyzed: 28-Aug-25						
Ammonia as N	ND	0.100	mg/L							
LCS (2535036-BS1)				Prepared & Analyzed: 28-Aug-25						
Ammonia as N	5.14	0.100	mg/L	5.00		103	85-115			
Duplicate (2535036-DUP1)		**Source: A508272-01**		Prepared & Analyzed: 28-Aug-25						
Ammonia as N	ND	0.100	mg/L		ND				25	
Duplicate (2535036-DUP2)		**Source: A508258-01**		Prepared & Analyzed: 28-Aug-25						
Ammonia as N	ND	0.100	mg/L		ND				25	

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2535036 - No Prep - WetChem										
Matrix Spike (2535036-MS1)	**Source: A508272-01**			Prepared & Analyzed: 28-Aug-25						
Ammonia as N	6.11	0.100	mg/L	5.00	ND	122	70-130			
Matrix Spike (2535036-MS2)	**Source: A508258-01**			Prepared & Analyzed: 28-Aug-25						
Ammonia as N	5.51	0.100	mg/L	5.00	ND	110	70-130			

Microbiology - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2534023 - No Prep - Micro										
Duplicate (2534023-DUP1)		**Source: A508270-01**		Prepared & Analyzed: 19-Aug-25						
E. Coli	ND	1.00	MPN/100 mL		ND				30	

Notes and Definitions

CP	Client Provided Data
CP	Client Provided Data
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
SUB	Subcontracted

- Field Activities for pH, Dissolved Oxygen, Residual Chlorine, and Temperature are not accredited activites.

- AWWS is not accredited for analyzing drinkingwater samples.

- QAQC may not be included for samples that will not be reported to accrediting authorities. Analyses include MLSS/MLVS and analyses for influent samples.

- NELAP Accredited.

- This report must be copied in full, unless AWWS, Inc. gives permission to do so.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Project
1164029

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

Printed 10/03/2025
16:37

TABLE OF CONTENTS

Add TKN & Sulfate

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

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

SAMPLE CROSS REFERENCE

Project
1164029

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

Sample	Sample ID	Taken	Time	Received
2451812	*RUSK PERMIT*	08/19/2025	09:00:00	08/20/2025

Bottle 01 Amber 32 Oz, Q
Bottle 02 Amber 32 Oz, Q
Bottle 03 Amber 32 Oz, Q
Bottle 04 Amber 32 Oz, Q
Bottle 05 Amber 32 Oz, Q
Bottle 06 Amber 32 Oz, Q
Bottle 07 Amber 32 Oz, Q
Bottle 08 Amber 32 Oz, Q
Bottle 09 Amber 32 Oz, Q
Bottle 10 Amber 32 Oz, Q
Bottle 11 Amber 32 Oz, Q
Bottle 12 Amber 32 Oz, Q
Bottle 13 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 14 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 15 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 16 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 17 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 18 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q
Bottle 19 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q
Bottle 20 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q
Bottle 21 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q
Bottle 22 H2SO4 to pH <2 Glass Qt w/Teflon lined lid, Q
Bottle 23 H2SO4 to pH <2 Glass Qt w/Teflon lined lid, Q
Bottle 24 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4), Q
Bottle 25 16 oz HNO3 Metals Plastic, Q
Bottle 26 Glass /clean metals w/HCl, Q
Bottle 27 NaOH to pH >12 Polyethylene 250 mL/amber, Q
Bottle 28 NaOH to pH >12 Polyethylene 250 mL/amber, Q
Bottle 29 Polyethylene Quart, Q
Bottle 30 Cr+6 Preserved 250 Polyethylene
Bottle 31 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1191462) Volume: 10.00000 mL <== Derived from 27 (5 ml)
Bottle 32 Prepared Bottle: Special Preparation
Bottle 33 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1191572) Volume: 10.00000 mL <== Derived from 32 (5 ml)
Bottle 34 Prepared Bottle: ICP Preparation for Metals (Batch 1191648) Volume: 50.00000 mL <== Derived from 25 (50 ml)
Bottle 35 Prepared Bottle: 2 mL Autosampler Vial (Batch 1191691) Volume: 5.00000 mL <== Derived from 01 (939 ml)
Bottle 36 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1191696) Volume: 1.00000 mL <== Derived from 02 (860 ml)
Bottle 37 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1191697) Volume: 1.00000 mL <== Derived from 02 (860 ml)
Bottle 38 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1191698) Volume: 1.00000 mL <== Derived from 02 (860 ml)
Bottle 39 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1191699) Volume: 1.00000 mL <== Derived from 02 (860 ml)
Bottle 40 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1191854) Volume: 6.00000 mL <== Derived from 24 (6 ml)
Bottle 41 Prepared Bottle: 2 mL Autosampler Vial (Batch 1191883) Volume: 1.00000 mL <== Derived from 04 (895 ml)

Email: Kilgore.ProjectManagement@spllabs.com

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

SAMPLE CROSS REFERENCE

Project
1164029

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

Bottle 42 Prepared Bottle: 2 mL Autosampler Vial (Batch 1192183) Volume: 10.00000 mL <== Derived from 06 (914 ml)
Bottle 43 Prepared Bottle: Mercury Preparation for Metals (Batch 1192620) Volume: 50.00000 mL <== Derived from 26 (47 ml)
Bottle 44 Prepared Bottle: 2 mL Autosampler Vial (Batch 1193418) Volume: 1.00000 mL <== Derived from 05 (997 ml)
Bottle 45 Prepared Bottle: 2 mL Autosampler Vial (Batch 1193430) Volume: 1.00000 mL <== Derived from 07 (906 ml)
Bottle 46 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1198691) Volume: 20.00000 mL <== Derived from 24 (20 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	37	1191697	08/21/2025	1193178	08/28/2025
EPA 608.3	39	1191699	08/21/2025	1193233	08/28/2025
EPA 615	42	1192183	08/25/2025	1192660	08/26/2025
EPA 632	36	1191696	08/21/2025	1193117	08/27/2025
1613			08/29/2025		08/29/2025
EPA 8015C	14	1192807	08/27/2025	1192807	08/27/2025
EPA 300.0 2.1	04	1192166	08/20/2025	1192166	08/20/2025
EPA 604.1	35	1191691	08/21/2025	1193150	08/28/2025
EPA 617	37	1191697	08/21/2025	1193170	08/28/2025
EPA 625.1	41	1191883	08/22/2025	1193257	08/28/2025
EPA 624.1	17	1192117	08/20/2025	1192117	08/20/2025
EPA 624.1	20	1192120	08/20/2025	1192120	08/20/2025
EPA 614	38	1191698	08/21/2025	1192678	08/26/2025
EPA 624.1	15	1193791	09/02/2025	1193791	09/02/2025
ASTM D7065-17	44	1193418	09/02/2025	1194301	09/05/2025
TX 1001	45	1193430	09/02/2025	1195353	09/09/2025
EPA 200.8 5.4	34	1191648	08/21/2025	1192403	08/25/2025
EPA 200.8 5.4	34	1191648	08/21/2025	1191872	08/21/2025
EPA 200.8 5.4	34	1191648	08/21/2025	1192083	08/22/2025
EPA 245.7 2	43	1192620	08/27/2025	1192701	08/27/2025
EPA 200.8 5.4	34	1191648	08/21/2025	1191933	08/21/2025
EPA 625.1	41	1191883	08/22/2025	1193269	08/28/2025
SM 4500-CN¯ G-2016			08/21/2025		08/21/2025
SM 4500-CN¯ G-2016	33	1191572	08/21/2025	1191713	08/21/2025
SM 4500-CN¯ E-2016	31	1191462	08/20/2025	1191717	08/21/2025
Calculation			08/23/2025		08/23/2025
SM 3500-Cr B-2011	30	1191662	08/21/2025	1191662	08/21/2025
SM 3500-Cr B-2011		1191339	08/19/2025	1191339	08/19/2025
EPA 420.4 1	40	1191854	08/22/2025	1192411	08/26/2025
EPA 351.2 2	46	1198691	10/03/2025	1198855	10/03/2025
EPA 622	38	1191698	08/21/2025	1192676	08/26/2025

Email: Kilgore.ProjectManagement@spllabs.com

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Project 1164029

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Arlin Braun
695 Shady Lane
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Printed: 10/03/2025

Add TKN & Sulfate

RESULTS

Sample Results

2451812 **RUSK PERMIT** *Received:* 08/20/2025

Non-Potable Water *Collected by:* Client AWWS Analytical Wate *PO:*

Taken: 08/19/2025 09:00:00

Supplement to Test Report 2438805

Prepared: 08/20/2025 09:31:07 *Calculated* 08/20/2025 09:31:07 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	SUB Shipped	Verified					

1613 *Prepared:* 08/29/2025 06:07:00 *Analyzed* 08/29/2025 06:07:00 SUB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Dioxins and Furans Subcontract	See Attached				ION1	

ASTM D7065-17 *Prepared:* 1193418 09/02/2025 13:45:09 *Analyzed* 1194301 09/05/2025 17:34:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nonylphenol	<30.1	ug/L	30.1	S	25154-52-3	44

Calculation *Prepared:* 08/23/2025 10:19:24 *Calculated* 08/23/2025 10:19:24 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trivalent Chromium	<0.003	mg/L	0.003		16065-83-1	

EPA 200.8 5.4 *Prepared:* 1191648 08/21/2025 08:00:00 *Analyzed* 1191872 08/21/2025 22:49:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Aluminum, Total	0.0902	mg/L	0.005		7429-90-5	34
NELAC	Antimony, Total	<0.000847	mg/L	0.000847		7440-36-0	34
NELAC	Barium, Total	0.0167	mg/L	0.003		7440-39-3	34
NELAC	Beryllium, Total	<0.000162	mg/L	0.000162		7440-41-7	34
NELAC	Cadmium, Total	<0.00012	mg/L	0.00012		7440-43-9	34
NELAC	Chromium, Total	0.00109	mg/L	0.001		7440-47-3	34
NELAC	Copper, Total	0.0199	mg/L	0.001		7440-50-8	34
NELAC	Lead, Total	<0.0005	mg/L	0.0005		7439-92-1	34
NELAC	Nickel, Total	0.0019	mg/L	0.001		7440-02-0	34

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Project
1164029

Printed: 10/03/2025

2451812 RUSK PERMIT Received: 08/20/2025

Non-Potable Water Collected by: Client AWWS Analytical Wate PO:
Taken: 08/19/2025 09:00:00
Supplement to Test Report 2438805

EPA 200.8 5.4 Prepared: 1191648 08/21/2025 08:00:00 Analyzed 1191933 08/21/2025 22:49:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Selenium, Total**	**<0.00294**	**mg/L**	0.00294		**7782-49-2**	34
NELAC	**Thallium, Total**	**<0.000966**	**mg/L**	0.000966		**7440-28-0**	34
NELAC	**Zinc, Total**	**0.0304**	**mg/L**	0.001		**7440-66-6**	34

EPA 200.8 5.4 Prepared: 1191648 08/21/2025 08:00:00 Analyzed 1192083 08/22/2025 16:46:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Arsenic, Total**	**0.00136**	**mg/L**	0.0005		**7440-38-2**	34

EPA 200.8 5.4 Prepared: 1191648 08/21/2025 08:00:00 Analyzed 1192403 08/25/2025 12:14:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Silver, Total**	**<0.000226**	**mg/L**	0.000226		**7440-22-4**	34

EPA 245.7 2 Prepared: 1192620 08/27/2025 09:40:00 Analyzed 1192701 08/27/2025 12:01:00 ANC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**4.60**	**ng/L**	4.26		**7439-97-6**	43

EPA 300.0 2.1 Prepared: 1192166 08/20/2025 18:18:00 Analyzed 1192166 08/20/2025 18:18:00 KRA

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Fluoride**	**1.37**	**mg/L**	0.500			04
NELAC	**Nitrate-Nitrogen Total**	**21.5**	**mg/L**	0.100		**14797-55-8**	04
NELAC	**Sulfate**	**48.4**	**mg/L**	3.00			04

EPA 351.2 2 Prepared: 1198691 10/03/2025 07:55:37 Analyzed 1198855 10/03/2025 09:50:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**1.17**	**mg/L**	0.050	H	**7727-37-9**	46

EPA 420.4 1 Prepared: 1191854 08/22/2025 08:10:34 Analyzed 1192411 08/26/2025 10:50:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Phenolics, Total Recoverable**	**0.024**	**mg/L**	0.005			40

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Printed: 10/03/2025

2451812 **RUSK PERMIT** Received: 08/20/2025

Non-Potable Water Collected by: Client AWWS Analytical Wate PO:
Taken: 08/19/2025 09:00:00
Supplement to Test Report 2438805

EPA 604.1 Prepared: 1191691 08/21/2025 14:00:00 Analyzed 1193150 08/28/2025 15:32:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<2.66	ug/L	2.66		70-30-4	35

EPA 608.3 Prepared: 1191697 08/21/2025 14:25:00 Analyzed 1193178 08/28/2025 21:11:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.0116	ug/L	0.0116	X	72-54-8	37
NELAC	4,4-DDE	<0.0116	ug/L	0.0116		72-55-9	37
NELAC	4,4-DDT	<0.0116	ug/L	0.0116	X	50-29-3	37
NELAC	Aldrin	<0.010	ug/L	0.010		309-00-2	37
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.0116	ug/L	0.0116		319-84-6	37
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.0116	ug/L	0.0116		319-85-7	37
NELAC	Chlordane	<0.116	ug/L	0.116		57-74-9	37
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.0116	ug/L	0.0116		319-86-8	37
NELAC	Dieldrin	<0.0116	ug/L	0.0116		60-57-1	37
NELAC	Endosulfan I (alpha)	<0.010	ug/L	0.010		959-98-8	37
NELAC	Endosulfan II (beta)	<0.0116	ug/L	0.0116		33213-65-9	37
NELAC	Endosulfan sulfate	<0.0116	ug/L	0.0116		1031-07-8	37
NELAC	Endrin	<0.0116	ug/L	0.0116		72-20-8	37
NELAC	Endrin aldehyde	<0.0116	ug/L	0.0116		7421-93-4	37
NELAC	Gamma-BHC(Lindane)	<0.0116	ug/L	0.0116		58-89-9	37
NELAC	Heptachlor	<0.010	ug/L	0.010		76-44-8	37
NELAC	Heptachlor epoxide	<0.010	ug/L	0.010		1024-57-3	37
NELAC	Toxaphene	<0.116	ug/L	0.116		8001-35-2	37

EPA 608.3 Prepared: 1191699 08/21/2025 14:25:00 Analyzed 1193233 08/28/2025 21:11:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200		12674-11-2	39
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	39
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	39
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	39
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	39
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	39
NELAC	PCB-1260	<0.200	ug/L	0.200	X	11096-82-5	39

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Non-Potable Water Collected by: Client AWWS Analytical Wate PO:
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EPA 614 Prepared: 1191698 08/21/2025 14:25:00 Analyzed 1192678 08/26/2025 20:35:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0581	ug/L	0.0581		86-50-0	38
NELAC	Demeton	<0.0581	ug/L	0.0581	D	8065-48-3	38
NELAC	Diazinon	<0.0581	ug/L	0.0581		333-41-5	38
NELAC	Malathion	<0.0581	ug/L	0.0581		121-75-5	38
NELAC	Parathion, ethyl	<0.0581	ug/L	0.0581		56-38-2	38
NELAC	Parathion, methyl	<0.0465	ug/L	0.0465		298-00-0	38

EPA 615 Prepared: 1192183 08/25/2025 14:35:00 Analyzed 1192660 08/26/2025 18:49:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.547	ug/L	0.547		94-75-7	42
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	42

EPA 617 Prepared: 1191697 08/21/2025 14:25:00 Analyzed 1193170 08/28/2025 21:11:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.116	ug/L	0.116	X	115-32-2	37
z	Methoxychlor	<0.0116	ug/L	0.0116	X	72-43-5	37
z	Mirex	<0.0116	ug/L	0.0116	X	2385-85-5	37

EPA 622 Prepared: 1191698 08/21/2025 14:25:00 Analyzed 1192676 08/26/2025 20:35:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.0465	ug/L	0.0465		2921-88-2	38

EPA 624.1 Prepared: 1192117 08/20/2025 18:26:00 Analyzed 1192117 08/20/2025 18:26:00 CCH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Acrolein	<2.00	ug/L	2.00		107-02-8	17
NELAC	Acrylonitrile	<1.00	ug/L	1.00		107-13-1	17

EPA 624.1 Prepared: 1192120 08/20/2025 18:48:00 Analyzed 1192120 08/20/2025 18:48:00 CCH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	(MTBE) tert-Butylmethylether	<1.00	ug/L	1.00		1634-04-4	20

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2451812 **RUSK PERMIT** Received: 08/20/2025

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EPA 624.1 Prepared: 1192120 08/20/2025 18:48:00 Analyzed 1192120 08/20/2025 18:48:00 CCH

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,1,1-Trichloroethane	<1.00	ug/L	1.00		71-55-6	20
NELAC	1,1,2,2-Tetrachloroethane	<1.00	ug/L	1.00		79-34-5	20
NELAC	1,1,2-Trichloroethane	<1.00	ug/L	1.00		79-00-5	20
NELAC	1,1-Dichloroethane	<1.00	ug/L	1.00		75-34-3	20
NELAC	1,1-Dichloroethylene	<1.00	ug/L	1.00		75-35-4	20
NELAC	1,2-Dibromoethane (EDB)	<1.00	ug/L	1.00		106-93-4	20
NELAC	1,2-Dichloroethane	<1.00	ug/L	1.00		107-06-2	20
NELAC	1,2-Dichloropropane	<1.00	ug/L	1.00		78-87-5	20
NELAC	2-Chloroethylvinyl ether	<1.00	ug/L	1.00		110-75-8	20
NELAC	Benzene	<1.00	ug/L	1.00		71-43-2	20
NELAC	Bromodichloromethane	10.7	ug/L	1.00		75-27-4	20
NELAC	Bromoform	<1.00	ug/L	1.00		75-25-2	20
NELAC	Bromomethane (Methyl Bromi	<1.00	ug/L	1.00		74-83-9	20
NELAC	Carbon Tetrachloride	<1.00	ug/L	1.00		56-23-5	20
NELAC	Chlorobenzene	<1.00	ug/L	1.00		108-90-7	20
NELAC	Chloroethane	<1.00	ug/L	1.00		75-00-3	20
NELAC	Chloroform	48.6	ug/L	1.00		67-66-3	20
NELAC	Chloromethane (Methyl Chloride)	<1.00	ug/L	1.00		74-87-3	20
NELAC	cis-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-01-5	20
NELAC	Dibromochloromethane	1.88	ug/L	1.00		124-48- 1	20
NELAC	Dichloromethane	<1.00	ug/L	1.00		75-09-2	20
NELAC	Ethylbenzene	<1.00	ug/L	1.00		100-41-4	20
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	20
NELAC	Methyl ethyl ketone (Butanone)	<1.00	ug/L	1.00		78-93-3	20
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	20
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	20
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	20
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	20
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-60-5	20
NELAC	trans-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-02-6	20
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	20
NELAC	Vinyl chloride	<1.00	ug/L	1.00		75-01-4	20

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2451812 **RUSK PERMIT** Received: 08/20/2025

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Taken: 08/19/2025 09:00:00
Supplement to Test Report 2438805

EPA 624.1 Prepared: 1192120 08/26/2025 10:13:11 Calculated 1192120 08/26/2025 10:13:11 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trihalomethanes	0.06118	mg/L	0.001			20

EPA 624.1 Prepared: 1193791 09/02/2025 22:15:00 Analyzed 1193791 09/02/2025 22:15:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Epichlorohydrin	<20.0	ug/L	20.0		106-89-8	15

EPA 625.1 Prepared: 1191883 08/22/2025 10:00:00 Analyzed 1193257 08/28/2025 20:44:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.12	ug/L	1.12		95-94-3	41
NELAC	1,2,4-Trichlorobenzene	<1.12	ug/L	1.12		120-82-1	41
NELAC	1,2-Dichlorobenzene	<3.91	ug/L	3.91		95-50-1	41
NELAC	1,2-DPH (as azobenzene)	<1.12	ug/L	1.12		122-66-7	41
NELAC	1,3-Dichlorobenzene	<1.12	ug/L	1.12		541-73-1	41
NELAC	1,4-Dichlorobenzene	<1.12	ug/L	1.12		106-46-7	41
NELAC	2,4,5-Trichlorophenol	<1.12	ug/L	1.12		95-95-4	41
NELAC	2,4,6-Trichlorophenol	<1.12	ug/L	1.12		88-06-2	41
NELAC	2,4-Dichlorophenol	<1.12	ug/L	1.12		120-83-2	41
NELAC	2,4-Dimethylphenol	<7.82	ug/L	7.82		105-67-9	41
NELAC	2,4-Dinitrophenol	<2.23	ug/L	2.23		51-28-5	41
NELAC	2,4-Dinitrotoluene	<1.12	ug/L	1.12		121-14-2	41
NELAC	2,6-Dinitrotoluene	<1.12	ug/L	1.12		606-20-2	41
NELAC	2-Chloronaphthalene	<1.12	ug/L	1.12		91-58-7	41
NELAC	2-Chlorophenol	<1.12	ug/L	1.12		95-57-8	41
NELAC	2-Methylphenol (o-Cresol)	<1.12	ug/L	1.12		95-48-7	41
NELAC	2-Nitrophenol	<1.12	ug/L	1.12		88-75-5	41
NELAC	3&4-Methylphenol (m&p-Cresol)	<1.12	ug/L	1.12		MEPH34	41
NELAC	3,3'-Dichlorobenzidine	<1.12	ug/L	1.12		91-94-1	41
NELAC	4,6-Dinitro-2-methylphenol	<2.23	ug/L	2.23		534-52-1	41
NELAC	4-Bromophenyl phenyl ether	<1.12	ug/L	1.12		101-55-3	41
NELAC	4-Chlorophenyl phenyl ethe	<1.12	ug/L	1.12		7005-72-3	41
NELAC	4-Nitrophenol	<1.12	ug/L	1.12		100-02-7	41
NELAC	Acenaphthene	<1.12	ug/L	1.12		83-32-9	41
NELAC	Acenaphthylene	<1.12	ug/L	1.12		208-96-8	41

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2451812 **RUSK PERMIT** Received: 08/20/2025

Non-Potable Water Collected by: Client AWWS Analytical Wate PO:
Taken: 08/19/2025 09:00:00
Supplement to Test Report 2438805

EPA 625.1 Prepared: 1191883 08/22/2025 10:00:00 Analyzed 1193257 08/28/2025 20:44:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Aniline	<7.82	ug/L	7.82	S	62-53-3	41
NELAC	Anthracene	<1.12	ug/L	1.12		120-12-7	41
NELAC	Benzidine	<1.68	ug/L	1.68	D	92-87-5	41
NELAC	Benzo(a)anthracene	<1.12	ug/L	1.12		56-55-3	41
NELAC	Benzo(a)pyrene	<1.12	ug/L	1.12		50-32-8	41
NELAC	Benzo(b)fluoranthene	<1.12	ug/L	1.12		205-99-2	41
NELAC	Benzo(ghi)perylene	<2.23	ug/L	2.23		191-24-2	41
NELAC	Benzo(k)fluoranthene	<1.12	ug/L	1.12		207-08-9	41
NELAC	Benzyl Butyl phthalate	<1.12	ug/L	1.12		85-68-7	41
NELAC	Bis(2-chloroethoxy)methane	<1.12	ug/L	1.12		111-91-1	41
NELAC	Bis(2-chloroethyl)ether	<1.12	ug/L	1.12		111-44-4	41
NELAC	Bis(2-chloroisopropyl)ether	<1.12	ug/L	1.12		108-60-1	41
NELAC	Bis(2-ethylhexyl)phthalate	<2.79	ug/L	2.79		117-81-7	41
z	Bisphenol A	<11.2	ug/L	11.2		80-05-7	41
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.12	ug/L	1.12		218-01-9	41
NELAC	Dibenz(a,h)anthracene	<1.12	ug/L	1.12		53-70-3	41
NELAC	Diethyl phthalate	<1.12	ug/L	1.12		84-66-2	41
NELAC	Dimethyl phthalate	<1.12	ug/L	1.12		131-11-3	41
NELAC	Di-n-butylphthalate	<1.12	ug/L	1.12		84-74-2	41
NELAC	Di-n-octylphthalate	<2.79	ug/L	2.79	X	117-84-0	41
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.12	ug/L	1.12		206-44-0	41
NELAC	Fluorene	<1.12	ug/L	1.12		86-73-7	41
NELAC	Hexachlorobenzene	<1.12	ug/L	1.12		118-74-1	41
NELAC	Hexachlorobutadiene	<1.12	ug/L	1.12		87-68-3	41
NELAC	Hexachlorocyclopentadiene	<1.12	ug/L	1.12		77-47-4	41
NELAC	Hexachloroethane	<1.12	ug/L	1.12		67-72-1	41
NELAC	Indeno(1,2,3-cd)pyrene	<2.23	ug/L	2.23		193-39-5	41
NELAC	Isophorone	<1.12	ug/L	1.12		78-59-1	41
NELAC	Naphthalene	<1.12	ug/L	1.12		91-20-3	41
NELAC	Nitrobenzene	<1.12	ug/L	1.12		98-95-3	41
NELAC	n-Nitrosodiethylamine	<2.79	ug/L	2.79		55-18-5	41
NELAC	N-Nitrosodimethylamine	<1.12	ug/L	1.12		62-75-9	41
NELAC	n-Nitroso-di-n-butylamine	<1.12	ug/L	1.12		924-16-3	41
NELAC	N-Nitrosodi-n-propylamine	<1.12	ug/L	1.12		621-64-7	41
NELAC	N-Nitrosodiphenylamine (as DPA	<1.12	ug/L	1.12		86-30-6	41

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Non-Potable Water Collected by: Client AWWS Analytical Wate PO:
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Supplement to Test Report 2438805

EPA 625.1 Prepared: 1191883 08/22/2025 10:00:00 Analyzed 1193257 08/28/2025 20:44:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<1.12	ug/L	1.12		59-50-7	41
NELAC	Pentachlorobenzene	<1.12	ug/L	1.12		608-93-5	41
NELAC	Pentachlorophenol	<1.12	ug/L	1.12		87-86-5	41
NELAC	Phenanthrene	<1.12	ug/L	1.12		85-01-8	41
NELAC	Phenol	<1.12	ug/L	1.12		108-95-2	41
NELAC	Pyrene	<1.12	ug/L	1.12	X	129-00-0	41
NELAC	Pyridine	<1.12	ug/L	1.12		110-86-1	41

EPA 625.1 Prepared: 1191883 08/22/2025 10:00:00 Calculated 1193257 09/25/2025 09:20:09 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<1.12	ug/L	1.12		1319-77-3, etc.	41

EPA 632 Prepared: 1191696 08/21/2025 14:25:00 Analyzed 1193117 08/27/2025 17:51:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<2.91	ug/L	2.91	D	63-25-2	36
z	Diuron	<0.0523	ug/L	0.0523	BD	330-54-1	36

EPA 8015C Prepared: 1192807 08/27/2025 16:23:00 Analyzed 1192807 08/27/2025 16:23:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ethylene Glycol	<50.0	mg/L	50.0		107-21-1	14

SM 3500-Cr B-2011 Prepared: 1191339 08/19/2025 09:00:00 Analyzed 1191339 08/19/2025 09:00:00 CLI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hex Cr, Field Preservation	PRESERVED	ug/L	3		18540-29-9	

SM 3500-Cr B-2011 Prepared: 1191662 08/21/2025 12:07:00 Analyzed 1191662 08/21/2025 12:07:00 SMM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hexavalent Chromium	<3.00	ug/L	3.00		18540-29-9	30

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2451812 **RUSK PERMIT** Received: 08/20/2025

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SM 4500-CN⁻ E-2016 Prepared: 1191462 08/20/2025 14:03:51 Analyzed 1191717 08/21/2025 11:41:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**<0.00238**	**mg/L**	0.00238			31

SM 4500-CN⁻ G-2016 Prepared: 08/21/2025 15:19:31 Calculated 08/21/2025 15:19:31 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide - Available/Amenable**	**<0.005**	**mg/L**	0.005			

SM 4500-CN⁻ G-2016 Prepared: 1191572 08/21/2025 09:00:40 Analyzed 1191713 08/21/2025 11:41:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide After Chlorination**	**0.004**	**mg/L**	0.005	J		33

TX 1001 Prepared: 1193430 09/02/2025 14:00:49 Analyzed 1195353 09/09/2025 22:56:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Tributyltin hydride**	**<0.00773**	**ug/L**	0.00773		**688-73-3**	45

Sample Preparation

2451812 **RUSK PERMIT** Received: 08/20/2025

08/19/2025

Prepared: 08/20/2025 09:31:07 Calculated 08/20/2025 09:31:07 CAL

z	**Enviro Fee (per Sampling Group)**	**Verified**
z	**LL Mercury Test Prep**	**Verified**

Prepared: 09/25/2025 09:22:00 Analyzed 09/25/2025 09:22:00 WJP

z	**Check Limits**	**Completed**

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2451812 **RUSK PERMIT** Received: 08/20/2025

08/19/2025

	ASTM D7065-17	*Prepared:*	*1193418*	*09/02/2025*	*13:45:09*	*Analyzed*	*1194301*	*09/05/2025*	*17:34:00*	*PM1*
z	**Nonyl Phenol Expansion**	**Entered**								44
	EPA 200.2 2.8	*Prepared:*	*1191648*	*08/21/2025*	*08:00:00*	*Analyzed*	*1191648*	*08/21/2025*	*08:00:00*	*AMC*
z	**Liquid Metals Digestion**	**50/50**	**ml**							25
	EPA 245.7 2	*Prepared:*	*1192620*	*08/27/2025*	*09:40:00*	*Analyzed*	*1192620*	*08/27/2025*	*09:40:00*	*ANC*
NELAC	**Low Level Mercury Liquid Metals**	**50/47**	**ml**							26
	EPA 351.2, Rev 2.0	*Prepared:*	*1198691*	*10/03/2025*	*07:55:37*	*Analyzed*	*1198691*	*10/03/2025*	*07:55:37*	*AMB*
NELAC	**TKN Block Digestion**	**20/20**	**ml**							24
	EPA 420.4 1	*Prepared:*	*1191854*	*08/22/2025*	*08:10:34*	*Analyzed*	*1191854*	*08/22/2025*	*08:10:34*	*MEG*
NELAC	**Phenol Distillation**	**6/6**	**ml**							24
	EPA 604.1	*Prepared:*	*1191691*	*08/21/2025*	*14:00:00*	*Analyzed*	*1191691*	*08/21/2025*	*14:00:00*	*CRS*
	Hexachlorophene Extraction	**5/939**	**ml**							01
	EPA 604.1	*Prepared:*	*1191691*	*08/21/2025*	*14:00:00*	*Analyzed*	*1193150*	*08/28/2025*	*15:32:00*	*BRU*
	Hexachlorophene Expansion	**Entered**						**70-30-4**		35

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08/19/2025

	EPA 608.3	*Prepared:*	*1191697*	*08/21/2025*	*14:25:00*	*Analyzed*	*1191697*	*08/21/2025*	*14:25:00*	*CRS*	
	Liquid-Liquid Extr. W/Hex Ex	**1/860**	**ml**								02
	EPA 608.3	*Prepared:*	*1191697*	*08/21/2025*	*14:25:00*	*Analyzed*	*1193178*	*08/28/2025*	*21:11:00*	*KAP*	
NELAC	**TTO Pesticides**	**Entered**									37
	EPA 608.3	*Prepared:*	*1191698*	*08/21/2025*	*14:25:00*	*Analyzed*	*1191698*	*08/21/2025*	*14:25:00*	*CRS*	
	Solvent Extraction	**1/860**	**ml**								02
	EPA 608.3	*Prepared:*	*1191699*	*08/21/2025*	*14:25:00*	*Analyzed*	*1191699*	*08/21/2025*	*14:25:00*	*CRS*	
	PCB Liq-Liq Extr. W/Hex Exch.	**1/860**	**ml**								02
	EPA 608.3	*Prepared:*	*1191699*	*08/21/2025*	*14:25:00*	*Analyzed*	*1193233*	*08/28/2025*	*21:11:00*	*KAP*	
NELAC	**Polychlorinated Biphenyls**	**Entered**									39
	EPA 614	*Prepared:*	*1191698*	*08/21/2025*	*14:25:00*	*Analyzed*	*1192678*	*08/26/2025*	*20:35:00*	*KAP*	
z	**Permit Organophos. Pesticides**	**Entered**									38
	EPA 615	*Prepared:*	*1192183*	*08/25/2025*	*14:35:00*	*Analyzed*	*1192183*	*08/25/2025*	*14:35:00*	*SAE*	
NELAC	**Esterification of Sample**	**10/914**	**ml**								06
	EPA 615	*Prepared:*	*1192183*	*08/25/2025*	*14:35:00*	*Analyzed*	*1192660*	*08/26/2025*	*18:49:00*	*KAP*	
NELAC	**Herbicides by GC**	**Entered**									42

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08/19/2025

	EPA 617	*Prepared:*	*1191697*	*08/21/2025*	*14:25:00*	*Analyzed*	*1193170*	*08/28/2025*	*21:11:00*	*KAP*
z	**For use with !PPR only**	**Entered**								37
	EPA 622	*Prepared:*	*1191698*	*08/21/2025*	*14:25:00*	*Analyzed*	*1192676*	*08/26/2025*	*20:35:00*	*KAP*
NELAC	**For use with EXP !CPP only**	**Entered**								38
	EPA 624.1	*Prepared:*	*1192117*	*08/20/2025*	*18:26:00*	*Analyzed*	*1192117*	*08/20/2025*	*18:26:00*	*CCH*
NELAC	**Acrolein/Acrylonitrile Exp.**	**Entered**								17
	EPA 624.1	*Prepared:*	*1192120*	*08/20/2025*	*18:48:00*	*Analyzed*	*1192120*	*08/20/2025*	*18:48:00*	*CCH*
z	**Table D-1/D-2 w/MTBE**	**Entered**								20
	EPA 624.1	*Prepared:*	*1193791*	*09/02/2025*	*22:15:00*	*Analyzed*	*1193791*	*09/02/2025*	*22:15:00*	*DWL*
NELAC	**Epichlorohydrin Exp.**	**Entered**								15
	EPA 625.1	*Prepared:*	*1191883*	*08/22/2025*	*10:00:00*	*Analyzed*	*1191883*	*08/22/2025*	*10:00:00*	*CRS*
	Liquid-Liquid Extraction, BNA	**1/895**	**ml**							04
	EPA 625.1	*Prepared:*	*1191883*	*08/22/2025*	*10:00:00*	*Analyzed*	*1193269*	*08/28/2025*	*20:44:00*	*PM1*
z	**Bisphenol A Expansion**	**Entered**						**80-05-7**		41
NELAC	**Table D-1/ D-2 Semivolatiles Exp**	**Entered**								41
	EPA 625.1	*Prepared:*	*1193418*	*09/02/2025*	*13:45:09*	*Analyzed*	*1193418*	*09/02/2025*	*13:45:09*	*CRS*
	Nonylphenol Liq-Liq Extract	**1/997**	**ml**			A				05

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2451812 **RUSK PERMIT** Received: 08/20/2025

08/19/2025

	EPA 632	*Prepared:*	*1191696*	*08/21/2025*	*14:25:00*	*Analyzed*	*1191696*	*08/21/2025*	*14:25:00*		*CRS*
	Liquid-Liquid Extr. W/Hex Ex	**1/860**	**ml**								02
	EPA 632	*Prepared:*	*1191696*	*08/21/2025*	*14:25:00*	*Analyzed*	*1193117*	*08/27/2025*	*17:51:00*		*BRU*
NELAC	**Carbaryl/Diuron EXP**	**Entered**									36
	EPA METHOD 8015C	*Prepared:*	*1192807*	*08/27/2025*	*16:23:00*	*Analyzed*	*1192807*	*08/27/2025*	*16:23:00*		*KAP*
NELAC	**Ethylene Glycol Expansion**	**Entered**						**107-21-1**			14
	SM 2540 D-2011	*Prepared:*	*1186578*	*08/21/2025*	*10:03:00*	*Analyzed*	*1186578*	*08/21/2025*	*10:03:00*		*LSM*
NELAC	**TSS Set Started**	**Started**									
	SM 4500-CN⁻C-2016	*Prepared:*	*1191462*	*08/20/2025*	*14:03:51*	*Analyzed*	*1191462*	*08/20/2025*	*14:03:51*		*MEG*
NELAC	**Cyanide Distillation**	**10/5**	**ml**								27
	SM 4500-CN⁻C-2016	*Prepared:*	*1191572*	*08/21/2025*	*09:00:40*	*Analyzed*	*1191572*	*08/21/2025*	*09:00:40*		*CMS*
NELAC	**CN Dist After Chlorination**	**10/5**	**ml**								32
	TX 1001	*Prepared:*	*1193430*	*09/02/2025*	*14:00:49*	*Analyzed*	*1193430*	*09/02/2025*	*14:00:49*		*CRS*
z	**Butyltins Extraction**	**1/906**	**ml**								07
	TX 1001	*Prepared:*	*1193430*	*09/02/2025*	*14:00:49*	*Analyzed*	*1195353*	*09/09/2025*	*22:56:00*		*DWL*
z	**Butyltin Expansion**	**Entered**									45

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Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
H - Sample started outside recommended holding time
S - Standard reads lower than desired
B - Analyte detected in the associated method blank
A - Lab pH adjusted per method prior to analysis
X - Standard reads higher than desired.

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, Senior Director, Environmental Technology

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Printed 10/03/2025

Analytical Set 1191713 — SM 4500-CN⁻ G-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1191572	ND	0.00119	0.0025	mg/L	127979207

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1191572	ND	0.00119	0.0025	mg/L	127979200
Cyanide After Chlorination	1191572	ND	0.00119	0.0025	mg/L	127979202
Cyanide After Chlorination	1191572	ND	0.00119	0.0025	mg/L	127979204
Cyanide After Chlorination	1191572	ND	0.00119	0.0025	mg/L	127979206
Cyanide After Chlorination	1191713	ND	0.00119	0.0025	mg/L	127979215

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.525	0.500	mg/L	105	90.0 - 110	127979199
Cyanide After Chlorination	0.530	0.500	mg/L	106	90.0 - 110	127979201
Cyanide After Chlorination	0.532	0.500	mg/L	106	90.0 - 110	127979203
Cyanide After Chlorination	0.526	0.500	mg/L	105	90.0 - 110	127979205
Cyanide After Chlorination	0.531	0.500	mg/L	106	90.0 - 110	127979210
Cyanide After Chlorination	0.535	0.500	mg/L	107	90.0 - 110	127979216
Cyanide After Chlorination	0.531	0.500	mg/L	106	90.0 - 110	127979217

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide After Chlorination	2437424	0.008	0.0068	mg/L	16.2	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.184	0.200	mg/L	92.0	90.0 - 110	127979198

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide After Chlorination	1191572	0.196	0.196	0.200	90.0 - 110	98.0	98.0	mg/L	0	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide After Chlorination	2437424	0.394	0.0068	0.400	mg/L	96.8	90.0 - 110	127979213

Analytical Set 1191717 — SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1191462	ND	0.00238	0.005	mg/L	127979298

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1191462	ND	0.00238	0.005	mg/L	127979301
Cyanide, total	1191462	ND	0.00238	0.005	mg/L	127979313
Cyanide, total	1191717	ND	0.00238	0.005	mg/L	127979330

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.525	0.500	mg/L	105	90.0 - 110	127979278
Cyanide, total	0.530	0.500	mg/L	106	90.0 - 110	127979288
Cyanide, total	0.532	0.500	mg/L	106	90.0 - 110	127979297
Cyanide, total	0.526	0.500	mg/L	105	90.0 - 110	127979308
Cyanide, total	0.531	0.500	mg/L	106	90.0 - 110	127979329
Cyanide, total	0.535	0.500	mg/L	107	90.0 - 110	127979331
Cyanide, total	0.531	0.500	mg/L	106	90.0 - 110	127979332

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide, total	2438798	0.0116	0.0114	mg/L	1.74	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.184	0.200	mg/L	92.0	90.0 - 110	127979277

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1191462	0.402	0.396	0.400	90.0 - 110	100	99.0	mg/L	1.50	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2438798	0.394	0.0114	0.400	mg/L	95.6	90.0 - 110	127979304

Analytical Set 1192411 — EPA 420.4 1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phenolics, Total Recoverable	1191854	ND	0.003	0.005	mg/L	127997455

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phenolics, Total Recoverable	1191854	ND	0.003	0.005	mg/L	127997454
Phenolics, Total Recoverable	1191854	ND	0.003	0.005	mg/L	127997466
Phenolics, Total Recoverable	1192411	ND	0.003	0.005	mg/L	127997483

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.198	0.200	mg/L	99.0	90.0 - 110	127997453
Phenolics, Total Recoverable	0.197	0.200	mg/L	98.5	90.0 - 110	127997463
Phenolics, Total Recoverable	0.209	0.200	mg/L	104	90.0 - 110	127997474
Phenolics, Total Recoverable	0.209	0.200	mg/L	104	90.0 - 110	127997484

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Phenolics, Total Recoverable	2438546	0.027	0.030	mg/L	10.5	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.197	0.200	mg/L	98.5	90.0 - 110	127997452

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phenolics, Total Recoverable	1191854	0.209	0.208	0.200	90.0 - 110	104	104	mg/L	0.480	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Phenolics, Total Recoverable	2438546	0.206	0.030	0.200	mg/L	88.0	90.0 - 110	127997460	*

Analytical Set 1198855 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1198691	ND	0.00712	0.050	mg/L	128159478

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1198691	ND	0.00712	0.050	mg/L	128159482
Total Kjeldahl Nitrogen	1198691	ND	0.00712	0.050	mg/L	128159494
Total Kjeldahl Nitrogen	1198855	ND	0.00712	0.050	mg/L	128159501

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.22	5.00	mg/L	104	90.0 - 110	128159434
Total Kjeldahl Nitrogen	5.26	5.00	mg/L	105	90.0 - 110	128159444
Total Kjeldahl Nitrogen	5.26	5.00	mg/L	105	90.0 - 110	128159455
Total Kjeldahl Nitrogen	5.27	5.00	mg/L	105	90.0 - 110	128159465
Total Kjeldahl Nitrogen	5.29	5.00	mg/L	106	90.0 - 110	128159476
Total Kjeldahl Nitrogen	5.25	5.00	mg/L	105	90.0 - 110	128159487
Total Kjeldahl Nitrogen	5.22	5.00	mg/L	104	90.0 - 110	128159498
Total Kjeldahl Nitrogen	5.27	5.00	mg/L	105	90.0 - 110	128159502

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2451129	1.43	1.35	mg/L	5.76	20.0
Total Kjeldahl Nitrogen	2451649	0.149	0.134	mg/L	10.6	20.0
Total Kjeldahl Nitrogen	2451650	ND	ND	mg/L		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.40	5.00	mg/L	108	90.0 - 110	128159433

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1198691	4.84	4.68	5.00	90.0 - 110	96.8	93.6	mg/L	3.36	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File

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Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2451129	6.54	1.35	5.00	mg/L	104	80.0 - 120	128159440
Total Kjeldahl Nitrogen	2451649	4.84	0.134	5.00	mg/L	94.1	80.0 - 120	128159484
Total Kjeldahl Nitrogen	2451650	4.90	ND	5.00	mg/L	98.0	80.0 - 120	128159488

Analytical Set 1192166 EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	0.125	0.100	mg/L	125	70.0 - 130	127989931
Nitrate-Nitrogen Total	0.0288	0.0226	mg/L	127	70.0 - 130	127989931

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1192166	0.0879	0.0227	0.100	mg/L	127989932
Nitrate-Nitrogen Total	1192166	ND	0.00655	0.0226	mg/L	127989932
Sulfate	1192166	ND	0.283	0.300	mg/L	127989932

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1192166	0.0814	0.0227	0.100	mg/L	127989928
Fluoride	1192166	0	0.0227	0.100	mg/L	127989948
Fluoride	1192166	0.0811	0.0227	0.100	mg/L	127989960
Nitrate-Nitrogen Total	1192166	0.00476	0.00655	0.0226	mg/L	127989928
Nitrate-Nitrogen Total	1192166	0.00262	0.00655	0.0226	mg/L	127989948
Nitrate-Nitrogen Total	1192166	0.00293	0.00655	0.0226	mg/L	127989960
Sulfate	1192166	0	0.283	0.300	mg/L	127989928
Sulfate	1192166	0	0.283	0.300	mg/L	127989948
Sulfate	1192166	0	0.283	0.300	mg/L	127989960

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	127989927
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	127989947
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	127989959
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110	127989927
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110	127989947
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110	127989959
Sulfate	9.32	10.0	mg/L	93.2	90.0 - 110	127989927
Sulfate	9.37	10.0	mg/L	93.7	90.0 - 110	127989947
Sulfate	9.39	10.0	mg/L	93.9	90.0 - 110	127989959

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1192166	4.95	4.92	5.00	88.0 - 118	99.0	98.4	mg/L	0.608	20.0
Nitrate-Nitrogen Total	1192166	1.20	1.20	1.13	86.3 - 117	106	106	mg/L	0	20.0
Sulfate	1192166	4.37	4.38	5.00	85.4 - 124	87.4	87.6	mg/L	0.229	20.0

AWWS-A

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Fluoride	2436552	80.5	78.8	9.10	100	80.0 - 120	71.4 *	69.7 *	mg/L	2.41	20.0
Nitrate-Nitrogen Total	2436552	23.8	23.4	0.424	22.6	80.0 - 120	103	102	mg/L	1.73	20.0
Sulfate	2436552	374	366	313	100	80.0 - 120	61.0 *	53.0 *	mg/L	14.0	20.0
Fluoride	2436863	108	79.1	8.87	100	80.0 - 120	99.1	70.2 *	mg/L	34.1 *	20.0
Nitrate-Nitrogen Total	2436863	23.4	23.8	0.962	22.6	80.0 - 120	99.3	101	mg/L	1.77	20.0
Sulfate	2436863	439	431	380	100	80.0 - 120	59.0 *	51.0 *	mg/L	14.5	20.0

Analytical Set 1191662 — SM 3500-Cr B-2011

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexavalent Chromium	1191662	ND	0.550	3.00	ug/L	127978677
Hexavalent Chromium	1191662	ND	0.550	3.00	ug/L	127978685
Hexavalent Chromium	1191662	ND	0.550	3.00	ug/L	127978690

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Hexavalent Chromium	79.1	80.0	ug/L	98.9	90.0 - 110	127978678
Hexavalent Chromium	79.4	80.0	ug/L	99.2	90.0 - 110	127978686
Hexavalent Chromium	79.4	80.0	ug/L	99.2	90.0 - 110	127978691

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Hexavalent Chromium	1191662	79.4	78.7	80.0	85.0 - 115	99.2	98.4	ug/L	0.886	15.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Hexavalent Chromium	2438337	79.6	79.6	ND	80.0	70.0 - 130	99.5	99.5	ug/L	0	20.0

Analytical Set 1191872 — EPA 200.8 5.4

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Aluminum, Total	1191648	ND	0.0039	0.005	mg/L	127982134
Antimony, Total	1191648	ND	0.000847	0.003	mg/L	127982134
Barium, Total	1191648	ND	0.00207	0.005	mg/L	127982134
Beryllium, Total	1191648	ND	0.000162	0.001	mg/L	127982134
Cadmium, Total	1191648	ND	0.00012	0.001	mg/L	127982134
Chromium, Total	1191648	ND	0.000392	0.001	mg/L	127982134
Copper, Total	1191648	ND	0.000325	0.001	mg/L	127982134
Lead, Total	1191648	ND	0.000549	0.001	mg/L	127982134
Nickel, Total	1191648	ND	0.000154	0.001	mg/L	127982134
Thallium, Total	1191648	ND	0.000966	0.001	mg/L	127982134
Zinc, Total	1191648	ND	0.000844	0.001	mg/L	127982134

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.0529	0.05	mg/L	106	90.0 - 110	127982053

QUALITY CONTROL

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0532	0.05	mg/L	106	90.0 - 110	127982054
Aluminum, Total	0.0534	0.05	mg/L	107	90.0 - 110	127982091
Aluminum, Total	0.0528	0.05	mg/L	106	90.0 - 110	127982100
Aluminum, Total	0.0552	0.05	mg/L	110	90.0 - 110	127982107
Aluminum, Total	0.0533	0.05	mg/L	107	90.0 - 110	127982116
Aluminum, Total	0.0533	0.05	mg/L	107	90.0 - 110	127982137
Aluminum, Total	0.0533	0.05	mg/L	107	90.0 - 110	127982148
Aluminum, Total	0.0534	0.05	mg/L	107	90.0 - 110	127982157
Aluminum, Total	0.0541	0.05	mg/L	108	90.0 - 110	127982159
Antimony, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	127982053
Antimony, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	127982054
Antimony, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	127982107
Antimony, Total	0.0484	0.05	mg/L	96.8	90.0 - 110	127982116
Antimony, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	127982137
Antimony, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	127982148
Antimony, Total	0.0486	0.05	mg/L	97.2	90.0 - 110	127982157
Antimony, Total	0.0477	0.05	mg/L	95.4	90.0 - 110	127982159
Barium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127982053
Barium, Total	0.0518	0.05	mg/L	104	90.0 - 110	127982054
Barium, Total	0.0479	0.05	mg/L	95.8	90.0 - 110	127982107
Barium, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	127982116
Barium, Total	0.0477	0.05	mg/L	95.4	90.0 - 110	127982137
Barium, Total	0.048	0.05	mg/L	96.0	90.0 - 110	127982148
Barium, Total	0.0477	0.05	mg/L	95.4	90.0 - 110	127982157
Barium, Total	0.0484	0.05	mg/L	96.8	90.0 - 110	127982159
Beryllium, Total	0.0528	0.05	mg/L	106	90.0 - 110	127982053
Beryllium, Total	0.0518	0.05	mg/L	104	90.0 - 110	127982054
Beryllium, Total	0.0524	0.05	mg/L	105	90.0 - 110	127982107
Beryllium, Total	0.0516	0.05	mg/L	103	90.0 - 110	127982116
Beryllium, Total	0.0525	0.05	mg/L	105	90.0 - 110	127982137
Beryllium, Total	0.0516	0.05	mg/L	103	90.0 - 110	127982148
Beryllium, Total	0.0516	0.05	mg/L	103	90.0 - 110	127982157
Cadmium, Total	0.050	0.05	mg/L	100	90.0 - 110	127982053
Cadmium, Total	0.0502	0.05	mg/L	100	90.0 - 110	127982054
Cadmium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127982107
Cadmium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127982116
Cadmium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127982127
Cadmium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127982137
Cadmium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127982148
Cadmium, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	127982157
Cadmium, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	127982159
Chromium, Total	0.0527	0.05	mg/L	105	90.0 - 110	127982053
Chromium, Total	0.053	0.05	mg/L	106	90.0 - 110	127982054
Chromium, Total	0.0521	0.05	mg/L	104	90.0 - 110	127982091
Chromium, Total	0.055	0.05	mg/L	110	90.0 - 110	127982107

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AWWS-A

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Chromium, Total	0.0533	0.05	mg/L	107	90.0 - 110	127982116
Chromium, Total	0.0526	0.05	mg/L	105	90.0 - 110	127982127
Chromium, Total	0.0531	0.05	mg/L	106	90.0 - 110	127982137
Chromium, Total	0.0525	0.05	mg/L	105	90.0 - 110	127982148
Chromium, Total	0.0523	0.05	mg/L	105	90.0 - 110	127982157
Chromium, Total	0.0526	0.05	mg/L	105	90.0 - 110	127982159
Copper, Total	0.0546	0.05	mg/L	109	90.0 - 110	127982053
Copper, Total	0.0545	0.05	mg/L	109	90.0 - 110	127982054
Copper, Total	0.0537	0.05	mg/L	107	90.0 - 110	127982081
Copper, Total	0.0529	0.05	mg/L	106	90.0 - 110	127982091
Copper, Total	0.0549	0.05	mg/L	110	90.0 - 110	127982107
Copper, Total	0.0531	0.05	mg/L	106	90.0 - 110	127982116
Copper, Total	0.0528	0.05	mg/L	106	90.0 - 110	127982127
Copper, Total	0.0533	0.05	mg/L	107	90.0 - 110	127982137
Copper, Total	0.0539	0.05	mg/L	108	90.0 - 110	127982148
Copper, Total	0.0533	0.05	mg/L	107	90.0 - 110	127982157
Copper, Total	0.0535	0.05	mg/L	107	90.0 - 110	127982159
Lead, Total	0.0513	0.05	mg/L	103	90.0 - 110	127982053
Lead, Total	0.0502	0.05	mg/L	100	90.0 - 110	127982054
Lead, Total	0.0517	0.05	mg/L	103	90.0 - 110	127982061
Lead, Total	0.0514	0.05	mg/L	103	90.0 - 110	127982070
Lead, Total	0.0509	0.05	mg/L	102	90.0 - 110	127982081
Lead, Total	0.0509	0.05	mg/L	102	90.0 - 110	127982091
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	127982107
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	127982116
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	127982127
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	127982137
Lead, Total	0.0503	0.05	mg/L	101	90.0 - 110	127982148
Lead, Total	0.0502	0.05	mg/L	100	90.0 - 110	127982157
Lead, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127982159
Nickel, Total	0.0534	0.05	mg/L	107	90.0 - 110	127982053
Nickel, Total	0.0542	0.05	mg/L	108	90.0 - 110	127982054
Nickel, Total	0.0538	0.05	mg/L	108	90.0 - 110	127982116
Nickel, Total	0.0525	0.05	mg/L	105	90.0 - 110	127982127
Nickel, Total	0.0536	0.05	mg/L	107	90.0 - 110	127982137
Nickel, Total	0.0524	0.05	mg/L	105	90.0 - 110	127982148
Nickel, Total	0.0534	0.05	mg/L	107	90.0 - 110	127982157
Nickel, Total	0.053	0.05	mg/L	106	90.0 - 110	127982159
Thallium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127982053
Thallium, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	127982054
Thallium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127982107
Thallium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127982116
Thallium, Total	0.0502	0.05	mg/L	100	90.0 - 110	127982137
Thallium, Total	0.0474	0.05	mg/L	94.8	90.0 - 110	127982148
Thallium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127982157

QUALITY CONTROL

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

Project
1164029

Printed 10/03/2025

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Thallium, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	127982159
Zinc, Total	0.0531	0.05	mg/L	106	90.0 - 110	127982053
Zinc, Total	0.0529	0.05	mg/L	106	90.0 - 110	127982054
Zinc, Total	0.053	0.05	mg/L	106	90.0 - 110	127982116
Zinc, Total	0.0534	0.05	mg/L	107	90.0 - 110	127982127
Zinc, Total	0.053	0.05	mg/L	106	90.0 - 110	127982137
Zinc, Total	0.054	0.05	mg/L	108	90.0 - 110	127982148
Zinc, Total	0.0531	0.05	mg/L	106	90.0 - 110	127982157
Zinc, Total	0.0526	0.05	mg/L	105	90.0 - 110	127982159

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.0527	0.05	mg/L	105	90.0 - 110	127982048
Antimony, Total	0.0535	0.05	mg/L	107	90.0 - 110	127982048
Barium, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	127982048
Beryllium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127982048
Cadmium, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127982048
Chromium, Total	0.0517	0.05	mg/L	103	90.0 - 110	127982048
Copper, Total	0.0527	0.05	mg/L	105	90.0 - 110	127982048
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127982048
Nickel, Total	0.0537	0.05	mg/L	107	90.0 - 110	127982048
Thallium, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127982048
Zinc, Total	0.0518	0.05	mg/L	104	90.0 - 110	127982048

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	1191648	0.503	0.495	0.500	85.0 - 115	101	99.0	mg/L	1.60	20.0
Antimony, Total	1191648	0.501	0.505	0.500	85.0 - 115	100	101	mg/L	0.795	20.0
Barium, Total	1191648	0.467	0.462	0.500	85.0 - 115	93.4	92.4	mg/L	1.08	20.0
Beryllium, Total	1191648	0.200	0.194	0.200	85.0 - 115	100	97.0	mg/L	3.05	20.0
Cadmium, Total	1191648	0.236	0.239	0.250	85.0 - 115	94.4	95.6	mg/L	1.26	20.0
Chromium, Total	1191648	0.498	0.490	0.500	85.0 - 115	99.6	98.0	mg/L	1.62	20.0
Copper, Total	1191648	0.501	0.494	0.500	85.0 - 115	100	98.8	mg/L	1.41	20.0
Lead, Total	1191648	0.492	0.496	0.500	85.0 - 115	98.4	99.2	mg/L	0.810	20.0
Nickel, Total	1191648	0.507	0.494	0.500	85.0 - 115	101	98.8	mg/L	2.60	20.0
Thallium, Total	1191648	0.499	0.499	0.500	85.0 - 115	99.8	99.8	mg/L	0	20.0
Zinc, Total	1191648	0.505	0.501	0.500	85.0 - 115	101	100	mg/L	0.795	20.0

MRL Check

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Copper, Total	0.00106	0.001	mg/L	106	25.0 - 175	127982049
Lead, Total	0.00112	0.001	mg/L	112	85.0 - 115	127982049

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	2438957	1.33	1.58	0.801	0.500	70.0 - 130	106	156 *	mg/L	38.2 *	20.0

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AWWS-A

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Antimony, Total	2438957	0.473	0.475	0.00582	0.500	70.0 - 130	93.4	93.8	mg/L	0.427	20.0
Barium, Total	2438957	0.585	0.648	0.151	0.500	70.0 - 130	86.8	99.4	mg/L	13.5	20.0
Beryllium, Total	2438957	0.190	0.196	ND	0.200	70.0 - 130	95.0	98.0	mg/L	3.11	20.0
Cadmium, Total	2438957	0.219	0.224	0.000151	0.250	70.0 - 130	87.5	89.5	mg/L	2.26	20.0
Chromium, Total	2438957	0.466	0.480	0.00762	0.500	70.0 - 130	91.7	94.5	mg/L	3.01	20.0
Copper, Total	2438957	0.482	0.506	0.0374	0.500	70.0 - 130	88.9	93.7	mg/L	5.26	20.0
Lead, Total	2438957	0.455	0.471	0.00336	0.500	70.0 - 130	90.3	93.5	mg/L	3.48	20.0
Nickel, Total	2438957	0.456	0.475	0.0154	0.500	70.0 - 130	88.1	91.9	mg/L	4.22	20.0
Thallium, Total	2438957	0.447	0.466	ND	0.500	70.0 - 130	89.4	93.2	mg/L	4.16	20.0
Zinc, Total	2438957	0.790	0.846	0.376	0.500	70.0 - 130	82.8	94.0	mg/L	12.7	20.0
Aluminum, Total	2439167	0.773	0.779	0.248	0.500	70.0 - 130	105	106	mg/L	1.14	20.0
Antimony, Total	2439167	0.507	0.501	0.00118	0.500	70.0 - 130	101	100	mg/L	1.19	20.0
Barium, Total	2439167	0.540	0.538	0.0801	0.500	70.0 - 130	92.0	91.6	mg/L	0.436	20.0
Beryllium, Total	2439167	0.198	0.195	ND	0.200	70.0 - 130	99.0	97.5	mg/L	1.53	20.0
Cadmium, Total	2439167	0.236	0.234	ND	0.250	70.0 - 130	94.4	93.6	mg/L	0.851	20.0
Chromium, Total	2439167	0.495	0.488	0.00125	0.500	70.0 - 130	98.8	97.4	mg/L	1.43	20.0
Copper, Total	2439167	0.500	0.493	0.00334	0.500	70.0 - 130	99.3	97.9	mg/L	1.42	20.0
Lead, Total	2439167	0.493	0.489	ND	0.500	70.0 - 130	98.6	97.8	mg/L	0.815	20.0
Nickel, Total	2439167	0.493	0.486	0.000478	0.500	70.0 - 130	98.5	97.1	mg/L	1.43	20.0
Thallium, Total	2439167	0.473	0.471	ND	0.500	70.0 - 130	94.6	94.2	mg/L	0.424	20.0
Zinc, Total	2439167	0.519	0.518	0.0138	0.500	70.0 - 130	101	101	mg/L	0.198	20.0

Analytical Set 1191933 EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Selenium, Total	1191648	ND	0.00294	0.005	mg/L	127983568

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Selenium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127983487
Selenium, Total	0.052	0.05	mg/L	104	90.0 - 110	127983488
Selenium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127983541
Selenium, Total	0.0516	0.05	mg/L	103	90.0 - 110	127983550
Selenium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127983571
Selenium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127983582
Selenium, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127983591
Selenium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127983593

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Selenium, Total	0.052	0.05	mg/L	104	90.0 - 110	127983482

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Selenium, Total	1191648	0.465	0.467	0.500	85.0 - 115	93.0	93.4	mg/L	0.429	20.0

AWWS-A

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Selenium, Total	2438957	0.394	0.395	ND	0.500	70.0 - 130	78.8	79.0	mg/L	0.253	20.0
Selenium, Total	2439167	0.467	0.461	0.00895	0.500	70.0 - 130	91.6	90.4	mg/L	1.32	20.0

Analytical Set 1192083 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1191648	ND	0.00025	0.0005	mg/L	127988046
Beryllium, Total	1191648	0.000145	0.0000605	0.0005	mg/L	127988046

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0526	0.05	mg/L	105	90.0 - 110	127988029
Arsenic, Total	0.0511	0.05	mg/L	102	90.0 - 110	127988037
Arsenic, Total	0.0506	0.05	mg/L	101	90.0 - 110	127988047
Arsenic, Total	0.0515	0.05	mg/L	103	90.0 - 110	127988058
Arsenic, Total	0.0522	0.05	mg/L	104	90.0 - 110	127988068

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127988024

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1191648	0.491	0.483	0.500	85.0 - 115	98.2	96.6	mg/L	1.64	20.0
Beryllium, Total	1191648	0.181	0.178	0.200	85.0 - 115	90.5	89.0	mg/L	1.67	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2438957	0.450	0.481	0.00317	0.500	70.0 - 130	89.4	95.6	mg/L	6.71	20.0
Beryllium, Total	2438957	0.168	0.173	0.00038	0.200	70.0 - 130	83.8	86.3	mg/L	2.94	20.0

Analytical Set 1192403 — EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Silver, Total	1191648	ND	0.000226	0.001	mg/L	127997228

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0533	0.05	mg/L	107	90.0 - 110	127997217
Silver, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	127997227
Silver, Total	0.0486	0.05	mg/L	97.2	90.0 - 110	127997238
Silver, Total	0.0455	0.05	mg/L	91.0	90.0 - 110	127997248

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Silver, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127997212

AWWS-A

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Silver, Total	1191648	0.0925	0.100		0.100	85.0 - 115	92.5	100	mg/L	7.79	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Silver, Total	2438957	0.0803	0.0786	ND	0.100	70.0 - 130	80.3	78.6	mg/L	2.14	20.0

Analytical Set 1192701 — EPA 245.7 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	5.14	5.00	ng/L	103	70.0 - 130	128003477

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1192620	3.38	1.20	4.00	ng/L	128003480

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	27.3	25.0	ng/L	109	87.0 - 113	128003478
Mercury, Total (low level)	21.7	25.0	ng/L	86.8	87.0 - 113	128003490
Mercury, Total (low level)	21.8	25.0	ng/L	87.2	87.0 - 113	128003502
Mercury, Total (low level)	21.9	25.0	ng/L	87.6	87.0 - 113	128003508

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	46.2	50.0	ng/L	92.4	90.0 - 110	128003473

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	26.6	25.0	ng/L	106	90.0 - 110	128003475

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1192620	22.0	22.2		25.0	76.0 - 113	88.0	88.8	ng/L	0.905	18.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2435932	24.3	27.1	8.92	26.6	63.0 - 111	57.8 *	68.3	ng/L	16.7	18.0
Mercury, Total (low level)	2439411	28.3	26.0	15.1	26.6	63.0 - 111	49.6 *	41.0 *	ng/L	19.1 *	18.0

Analytical Set 1192117 — EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1192117	174	301	1.2	0 - 2.00	127989107
BFB Mass 174	1192117	95.0	25792	72.8	50.0 - 100	127989107
BFB Mass 175	1192117	174	2028	7.9	5.00 - 9.00	127989107
BFB Mass 176	1192117	174	24781	96.1	95.0 - 101	127989107
BFB Mass 177	1192117	176	1735	7.0	5.00 - 9.00	127989107

AWWS-A

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BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 50	1192117	95.0	5468	15.4	15.0 - 40.0	127989107
BFB Mass 75	1192117	95.0	16498	46.6	30.0 - 60.0	127989107
BFB Mass 95	1192117	95.0	35405	100.0	100 - 100	127989107
BFB Mass 96	1192117	95.0	2360	6.7	5.00 - 9.00	127989107

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Acrolein	1192117	ND	1.93	2.00	ug/L	127989111
Acrylonitrile	1192117	ND	0.504	1.00	ug/L	127989111

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1192117	LCS	101300	105300	52640	157900	127989109	1192117
1,4-DichlorobenzeneD4 (ISTD)	1192117	LCS Dup	97520	105300	52640	157900	127989110	1192117
1,4-DichlorobenzeneD4 (ISTD)	1192117	Blank	86140	105300	52640	157900	127989111	1192117
ChlorobenzeneD5 (ISTD)	1192117	LCS	181400	183400	91720	275200	127989109	1192117
ChlorobenzeneD5 (ISTD)	1192117	LCS Dup	176800	183400	91720	275200	127989110	1192117
ChlorobenzeneD5 (ISTD)	1192117	Blank	162600	183400	91720	275200	127989111	1192117
1,4-DichlorobenzeneD4 (ISTD)	2438238	MS	86520	105300	52640	157900	127989113	1192117
1,4-DichlorobenzeneD4 (ISTD)	2438238	MSD	88790	105300	52640	157900	127989114	1192117
ChlorobenzeneD5 (ISTD)	2438238	MS	156800	183400	91720	275200	127989113	1192117
ChlorobenzeneD5 (ISTD)	2438238	MSD	163900	183400	91720	275200	127989114	1192117

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1192117	LCS	11.90	11.90	11.84	11.96	127989109	1192117
1,4-DichlorobenzeneD4 (ISTD)	1192117	LCS Dup	11.90	11.90	11.84	11.96	127989110	1192117
1,4-DichlorobenzeneD4 (ISTD)	1192117	Blank	11.90	11.90	11.84	11.96	127989111	1192117
ChlorobenzeneD5 (ISTD)	1192117	LCS	9.524	9.524	9.464	9.584	127989109	1192117
ChlorobenzeneD5 (ISTD)	1192117	LCS Dup	9.524	9.524	9.464	9.584	127989110	1192117
ChlorobenzeneD5 (ISTD)	1192117	Blank	9.524	9.524	9.464	9.584	127989111	1192117
1,4-DichlorobenzeneD4 (ISTD)	2438238	MS	11.90	11.90	11.84	11.96	127989113	1192117
1,4-DichlorobenzeneD4 (ISTD)	2438238	MSD	11.90	11.90	11.84	11.96	127989114	1192117
ChlorobenzeneD5 (ISTD)	2438238	MS	9.524	9.524	9.464	9.584	127989113	1192117
ChlorobenzeneD5 (ISTD)	2438238	MSD	9.524	9.524	9.464	9.584	127989114	1192117

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Acrolein	1192117	33.6	34.2	40.0	60.0 - 140	84.0	85.5	ug/L	1.77	30.0
Acrylonitrile	1192117	34.2	34.7	40.0	60.0 - 140	85.5	86.8	ug/L	1.51	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Acrolein	2438238	14.5	0	ND	200	40.0 - 160	7.25 *		ug/L		60.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%

AWWS-A

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Acrylonitrile	2438238	197	196	ND	200	40.0 - 160	98.5	98.0	ug/L	0.509	60.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1192117	LCS	18.3	20.0	ug/L	91.5	70.0 - 130	127989109
1,2-DCA-d4 (SURR)	1192117	LCS Dup	17.7	20.0	ug/L	88.5	70.0 - 130	127989110
1,2-DCA-d4 (SURR)	1192117	Blank	17.9	20.0	ug/L	89.5	70.0 - 130	127989111
Bromofluorobenzene (SURR)	1192117	LCS	20.3	20.0	ug/L	102	70.0 - 130	127989109
Bromofluorobenzene (SURR)	1192117	LCS Dup	20.7	20.0	ug/L	104	70.0 - 130	127989110
Bromofluorobenzene (SURR)	1192117	Blank	20.7	20.0	ug/L	104	70.0 - 130	127989111
Dibromofluoromethane (SURR)	1192117	LCS	18.8	20.0	ug/L	94.0	70.0 - 130	127989109
Dibromofluoromethane (SURR)	1192117	LCS Dup	18.5	20.0	ug/L	92.5	70.0 - 130	127989110
Dibromofluoromethane (SURR)	1192117	Blank	18.4	20.0	ug/L	92.0	70.0 - 130	127989111
TolueneD8 (SURR)	1192117	LCS	19.4	20.0	ug/L	97.0	70.0 - 130	127989109
TolueneD8 (SURR)	1192117	LCS Dup	19.0	20.0	ug/L	95.0	70.0 - 130	127989110
TolueneD8 (SURR)	1192117	Blank	18.7	20.0	ug/L	93.5	70.0 - 130	127989111
1,2-DCA-d4 (SURR)	2438238	MS	18.9	20.0	ug/L	94.5	70.0 - 130	127989113
1,2-DCA-d4 (SURR)	2438238	MSD	18.6	20.0	ug/L	93.0	70.0 - 130	127989114
Bromofluorobenzene (SURR)	2438238	MS	21.0	20.0	ug/L	105	70.0 - 130	127989113
Bromofluorobenzene (SURR)	2438238	MSD	20.9	20.0	ug/L	104	70.0 - 130	127989114
Dibromofluoromethane (SURR)	2438238	MS	19.1	20.0	ug/L	95.5	70.0 - 130	127989113
Dibromofluoromethane (SURR)	2438238	MSD	18.9	20.0	ug/L	94.5	70.0 - 130	127989114
TolueneD8 (SURR)	2438238	MS	19.5	20.0	ug/L	97.5	70.0 - 130	127989113
TolueneD8 (SURR)	2438238	MSD	19.3	20.0	ug/L	96.5	70.0 - 130	127989114

Analytical Set 1192120 — EPA 624.1

BFB

Parameter	*Sample*	*RefMass*	*Reading*	*%*	*Limits%*	*File*
BFB Mass 173	1192120	174	301	1.2	0 - 2.00	127989141
BFB Mass 174	1192120	95.0	25792	72.8	50.0 - 100	127989141
BFB Mass 175	1192120	174	2028	7.9	5.00 - 9.00	127989141
BFB Mass 176	1192120	174	24781	96.1	95.0 - 101	127989141
BFB Mass 177	1192120	176	1735	7.0	5.00 - 9.00	127989141
BFB Mass 50	1192120	95.0	5468	15.4	15.0 - 40.0	127989141
BFB Mass 75	1192120	95.0	16498	46.6	30.0 - 60.0	127989141
BFB Mass 95	1192120	95.0	35405	100.0	100 - 100	127989141
BFB Mass 96	1192120	95.0	2360	6.7	5.00 - 9.00	127989141

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
(MTBE) tert-Butylmethylether	1192120	ND	0.145	1.00	ug/L	127989145
1,1,1-Trichloroethane	1192120	ND	0.227	1.00	ug/L	127989145
1,1,2-Trichloroethane	1192120	ND	0.245	1.00	ug/L	127989145
1,1-Dichloroethane	1192120	ND	0.206	1.00	ug/L	127989145
1,1-Dichloroethylene	1192120	ND	0.163	1.00	ug/L	127989145

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AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
1,2-Dibromoethane (EDB)	1192120	ND	0.133	1.00	ug/L	127989145
1,2-Dichloroethane	1192120	ND	0.174	1.00	ug/L	127989145
1,2-Dichloropropane	1192120	ND	0.0922	1.00	ug/L	127989145
Benzene	1192120	ND	0.158	1.00	ug/L	127989145
Bromodichloromethane	1192120	ND	0.174	1.00	ug/L	127989145
Bromoform	1192120	ND	0.288	1.00	ug/L	127989145
Carbon Tetrachloride	1192120	ND	0.137	1.00	ug/L	127989145
Chlorobenzene	1192120	ND	0.146	1.00	ug/L	127989145
Chloroethane	1192120	ND	0.595	1.00	ug/L	127989145
Chloroform	1192120	ND	0.162	1.00	ug/L	127989145
Chloromethane (Methyl Chloride)	1192120	ND	0.215	1.00	ug/L	127989145
cis-1,3-Dichloropropene	1192120	ND	0.123	1.00	ug/L	127989145
Dibromochloromethane	1192120	ND	0.143	1.00	ug/L	127989145
Dichloromethane	1192120	ND	0.319	1.00	ug/L	127989145
Ethylbenzene	1192120	ND	0.147	1.00	ug/L	127989145
m-Dichlorobenzene (1,3-DCB)	1192120	ND	0.173	1.00	ug/L	127989145
Methyl ethyl ketone (Butanone)	1192120	ND	0.466	1.00	ug/L	127989145
o-Dichlorobenzene (1,2-DCB)	1192120	ND	0.190	1.00	ug/L	127989145
p-Dichlorobenzene (1,4-DCB)	1192120	ND	0.158	1.00	ug/L	127989145
Tetrachloroethylene	1192120	ND	0.239	1.00	ug/L	127989145
Toluene	1192120	ND	0.181	1.00	ug/L	127989145
trans-1,2-Dichloroethylene	1192120	ND	0.231	1.00	ug/L	127989145
trans-1,3-Dichloropropene	1192120	ND	0.121	1.00	ug/L	127989145
Trichloroethylene	1192120	ND	0.153	1.00	ug/L	127989145
Vinyl chloride	1192120	ND	0.222	1.00	ug/L	127989145

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1192120	LCS	101300	105300	52640	157900	127989143	1192120
1,4-DichlorobenzeneD4 (ISTD)	1192120	LCS Dup	97520	105300	52640	157900	127989144	1192120
1,4-DichlorobenzeneD4 (ISTD)	1192120	Blank	86140	105300	52640	157900	127989145	1192120
ChlorobenzeneD5 (ISTD)	1192120	LCS	181400	183400	91720	275200	127989143	1192120
ChlorobenzeneD5 (ISTD)	1192120	LCS Dup	176800	183400	91720	275200	127989144	1192120
ChlorobenzeneD5 (ISTD)	1192120	Blank	162600	183400	91720	275200	127989145	1192120
1,4-DichlorobenzeneD4 (ISTD)	2438238	MS	86520	105300	52640	157900	127989147	1192120
1,4-DichlorobenzeneD4 (ISTD)	2438238	MSD	88790	105300	52640	157900	127989148	1192120
ChlorobenzeneD5 (ISTD)	2438238	MS	156800	183400	91720	275200	127989147	1192120
ChlorobenzeneD5 (ISTD)	2438238	MSD	163900	183400	91720	275200	127989148	1192120

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1192120	LCS	11.90	11.90	11.84	11.96	127989143	1192120
1,4-DichlorobenzeneD4 (ISTD)	1192120	LCS Dup	11.90	11.90	11.84	11.96	127989144	1192120
1,4-DichlorobenzeneD4 (ISTD)	1192120	Blank	11.90	11.90	11.84	11.96	127989145	1192120
ChlorobenzeneD5 (ISTD)	1192120	LCS	9.524	9.524	9.464	9.584	127989143	1192120

QUALITY CONTROL

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
ChlorobenzeneD5 (ISTD)	1192120	LCS Dup	9.524	9.524	9.464	9.584	127989144	1192120
ChlorobenzeneD5 (ISTD)	1192120	Blank	9.524	9.524	9.464	9.584	127989145	1192120
1,4-DichlorobenzeneD4 (ISTD)	2438238	MS	11.90	11.90	11.84	11.96	127989147	1192120
1,4-DichlorobenzeneD4 (ISTD)	2438238	MSD	11.90	11.90	11.84	11.96	127989148	1192120
ChlorobenzeneD5 (ISTD)	2438238	MS	9.524	9.524	9.464	9.584	127989147	1192120
ChlorobenzeneD5 (ISTD)	2438238	MSD	9.524	9.524	9.464	9.584	127989148	1192120

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
(MTBE) tert-Butylmethylether	1192120	17.4	17.0	20.0	70.8 - 125	87.0	85.0	ug/L	2.33	30.0
1,1,1-Trichloroethane	1192120	17.0	16.8	20.0	70.0 - 130	85.0	84.0	ug/L	1.18	21.0
1,1,2,2-Tetrachloroethane	1192120	17.9	18.2	20.0	60.0 - 140	89.5	91.0	ug/L	1.66	36.0
1,1,2-Trichloroethane	1192120	18.3	18.0	20.0	70.0 - 130	91.5	90.0	ug/L	1.65	27.0
1,1-Dichloroethane	1192120	17.4	17.5	20.0	70.0 - 130	87.0	87.5	ug/L	0.573	24.0
1,1-Dichloroethylene	1192120	15.5	15.2	20.0	50.0 - 150	77.5	76.0	ug/L	1.95	40.0
1,2-Dibromoethane (EDB)	1192120	17.8	17.4	20.0	78.4 - 122	89.0	87.0	ug/L	2.27	30.0
1,2-Dichloroethane	1192120	17.5	17.1	20.0	70.0 - 130	87.5	85.5	ug/L	2.31	29.0
1,2-Dichloropropane	1192120	17.9	17.8	20.0	35.0 - 165	89.5	89.0	ug/L	0.560	69.0
Benzene	1192120	18.1	17.5	20.0	65.0 - 135	90.5	87.5	ug/L	3.37	33.0
Bromodichloromethane	1192120	16.8	16.9	20.0	65.0 - 135	84.0	84.5	ug/L	0.593	34.0
Bromoform	1192120	17.0	17.5	20.0	70.0 - 130	85.0	87.5	ug/L	2.90	25.0
Bromomethane (Methyl Bromi	1192120	14.4	14.7	20.0	15.0 - 185	72.0	73.5	ug/L	2.06	90.0
Carbon Tetrachloride	1192120	17.1	17.0	20.0	70.0 - 130	85.5	85.0	ug/L	0.587	26.0
Chlorobenzene	1192120	17.5	17.2	20.0	65.0 - 135	87.5	86.0	ug/L	1.73	29.0
Chloroethane	1192120	14.9	14.6	20.0	40.0 - 160	74.5	73.0	ug/L	2.03	47.0
Chloroform	1192120	17.3	17.1	20.0	70.0 - 135	86.5	85.5	ug/L	1.16	32.0
Chloromethane (Methyl Chloride)	1192120	10.2	10.1	20.0	0.100 - 205	51.0	50.5	ug/L	0.985	472
cis-1,3-Dichloropropene	1192120	16.6	16.3	20.0	25.0 - 175	83.0	81.5	ug/L	1.82	79.0
Dibromochloromethane	1192120	17.1	17.2	20.0	70.0 - 135	85.5	86.0	ug/L	0.583	30.0
Dichloromethane	1192120	16.2	16.3	20.0	60.0 - 140	81.0	81.5	ug/L	0.615	192
Ethylbenzene	1192120	18.5	18.4	20.0	60.0 - 140	92.5	92.0	ug/L	0.542	34.0
m-Dichlorobenzene (1,3-DCB)	1192120	17.2	17.3	20.0	70.0 - 130	86.0	86.5	ug/L	0.580	24.0
Methyl ethyl ketone (Butanone)	1192120	20.3	20.2	20.0	62.3 - 136	102	101	ug/L	0.985	30.0
o-Dichlorobenzene (1,2-DCB)	1192120	17.4	17.8	20.0	65.0 - 135	87.0	89.0	ug/L	2.27	31.0
p-Dichlorobenzene (1,4-DCB)	1192120	17.0	17.3	20.0	65.0 - 135	85.0	86.5	ug/L	1.75	31.0
Tetrachloroethylene	1192120	17.3	17.2	20.0	70.0 - 130	86.5	86.0	ug/L	0.580	23.0
Toluene	1192120	18.0	17.6	20.0	70.0 - 130	90.0	88.0	ug/L	2.25	22.0
trans-1,2-Dichloroethylene	1192120	15.5	15.5	20.0	70.0 - 130	77.5	77.5	ug/L	0	27.0
trans-1,3-Dichloropropene	1192120	17.3	17.2	20.0	50.0 - 150	86.5	86.0	ug/L	0.580	52.0
Trichloroethylene	1192120	16.8	16.8	20.0	65.0 - 135	84.0	84.0	ug/L	0	29.0
Vinyl chloride	1192120	11.8	12.0	20.0	5.00 - 195	59.0	60.0	ug/L	1.68	100

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
(MTBE) tert-Butylmethylether	2438238	79.4	75.9	ND	100	28.8 - 124	79.4	75.9	ug/L	4.51	30.0

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AWWS-A

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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
1,1,1-Trichloroethane	2438238	83.0	77.9	ND	100	52.0 - 162	83.0	77.9	ug/L	6.34	36.0
1,1,2,2-Tetrachloroethane	2438238	89.8	85.8	ND	100	46.0 - 157	89.8	85.8	ug/L	4.56	61.0
1,1,2-Trichloroethane	2438238	87.1	84.2	ND	100	52.0 - 150	87.1	84.2	ug/L	3.39	45.0
1,1-Dichloroethane	2438238	84.4	79.2	ND	100	59.0 - 155	84.4	79.2	ug/L	6.36	40.0
1,1-Dichloroethylene	2438238	72.6	71.2	ND	100	0.100 - 234	72.6	71.2	ug/L	1.95	32.0
1,2-Dibromoethane (EDB)	2438238	83.4	81.4	ND	100	49.3 - 120	83.4	81.4	ug/L	2.43	30.0
1,2-Dichloroethane	2438238	83.4	78.3	ND	100	49.0 - 155	83.4	78.3	ug/L	6.31	49.0
1,2-Dichloropropane	2438238	87.4	81.8	ND	100	0.100 - 210	87.4	81.8	ug/L	6.62	55.0
Benzene	2438238	84.6	80.2	ND	100	37.0 - 151	84.6	80.2	ug/L	5.34	61.0
Bromodichloromethane	2438238	80.9	77.4	ND	100	35.0 - 155	80.9	77.4	ug/L	4.42	56.0
Bromoform	2438238	85.0	81.6	ND	100	45.0 - 169	85.0	81.6	ug/L	4.08	42.0
Bromomethane (Methyl Bromi	2438238	69.4	63.9	ND	100	0.100 - 242	69.4	63.9	ug/L	8.25	61.0
Carbon Tetrachloride	2438238	85.2	79.6	ND	100	70.0 - 140	85.2	79.6	ug/L	6.80	41.0
Chlorobenzene	2438238	82.7	78.2	ND	100	37.0 - 160	82.7	78.2	ug/L	5.59	53.0
Chloroethane	2438238	71.8	66.2	ND	100	14.0 - 230	71.8	66.2	ug/L	8.12	78.0
Chloroform	2438238	90.5	83.6	6.65	100	51.0 - 138	83.8	77.0	ug/L	8.58	54.0
Chloromethane (Methyl Chloride)	2438238	49.6	45.2	ND	100	0.100 - 273	49.6	45.2	ug/L	9.28	60.0
cis-1,3-Dichloropropene	2438238	76.5	72.9	ND	100	0.100 - 227	76.5	72.9	ug/L	4.82	58.0
Dibromochloromethane	2438238	82.4	78.2	ND	100	53.0 - 149	82.4	78.2	ug/L	5.23	50.0
Dichloromethane	2438238	82.2	77.6	4.70	100	0.100 - 221	77.5	72.9	ug/L	6.12	28.0
Ethylbenzene	2438238	86.7	85.2	ND	100	37.0 - 162	86.7	85.2	ug/L	1.75	63.0
m-Dichlorobenzene (1,3-DCB)	2438238	83.0	79.4	ND	100	59.0 - 156	83.0	79.4	ug/L	4.43	43.0
Methyl ethyl ketone (Butanone)	2438238	101	96.2	ND	100	0.100 - 211	101	96.2	ug/L	4.87	30.0
o-Dichlorobenzene (1,2-DCB)	2438238	82.0	80.4	ND	100	18.0 - 190	82.0	80.4	ug/L	1.97	57.0
p-Dichlorobenzene (1,4-DCB)	2438238	80.9	78.6	ND	100	18.0 - 190	80.9	78.6	ug/L	2.88	57.0
Tetrachloroethylene	2438238	79.8	76.0	ND	100	64.0 - 148	79.8	76.0	ug/L	4.88	39.0
Toluene	2438238	85.6	81.0	ND	100	47.0 - 150	85.6	81.0	ug/L	5.52	41.0
trans-1,2-Dichloroethylene	2438238	74.7	70.0	ND	100	54.0 - 156	74.7	70.0	ug/L	6.50	45.0
trans-1,3-Dichloropropene	2438238	83.1	80.8	ND	100	17.0 - 183	83.1	80.8	ug/L	2.81	86.0
Trichloroethylene	2438238	79.1	74.9	ND	100	70.0 - 157	79.1	74.9	ug/L	5.45	48.0
Vinyl chloride	2438238	59.5	54.2	ND	100	0.100 - 251	59.5	54.2	ug/L	9.32	66.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1192120	LCS	18.3	20.0	ug/L	91.5	70.0 - 130	127989143
1,2-DCA-d4 (SURR)	1192120	LCS Dup	17.7	20.0	ug/L	88.5	70.0 - 130	127989144
1,2-DCA-d4 (SURR)	1192120	Blank	17.9	20.0	ug/L	89.5	70.0 - 130	127989145
Bromofluorobenzene (SURR)	1192120	LCS	20.3	20.0	ug/L	102	70.0 - 130	127989143
Bromofluorobenzene (SURR)	1192120	LCS Dup	20.7	20.0	ug/L	104	70.0 - 130	127989144
Bromofluorobenzene (SURR)	1192120	Blank	20.7	20.0	ug/L	104	70.0 - 130	127989145
Dibromofluoromethane (SURR)	1192120	LCS	18.8	20.0	ug/L	94.0	70.0 - 130	127989143
Dibromofluoromethane (SURR)	1192120	LCS Dup	18.5	20.0	ug/L	92.5	70.0 - 130	127989144
Dibromofluoromethane (SURR)	1192120	Blank	18.4	20.0	ug/L	92.0	70.0 - 130	127989145
ToluneneD8 (SURR)	1192120	LCS	19.4	20.0	ug/L	97.0	70.0 - 130	127989143
ToluneneD8 (SURR)	1192120	LCS Dup	19.0	20.0	ug/L	95.0	70.0 - 130	127989144

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
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695 Shady Lane
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
TolueneD8 (SURR)	1192120	Blank	18.7	20.0	ug/L	93.5	70.0 - 130	127989145
1,2-DCA-d4 (SURR)	2438238	MS	18.9	20.0	ug/L	94.5	70.0 - 130	127989147
1,2-DCA-d4 (SURR)	2438238	MSD	18.6	20.0	ug/L	93.0	70.0 - 130	127989148
Bromofluorobenzene (SURR)	2438238	MS	21.0	20.0	ug/L	105	70.0 - 130	127989147
Bromofluorobenzene (SURR)	2438238	MSD	20.9	20.0	ug/L	104	70.0 - 130	127989148
Dibromofluoromethane (SURR)	2438238	MS	19.1	20.0	ug/L	95.5	70.0 - 130	127989147
Dibromofluoromethane (SURR)	2438238	MSD	18.9	20.0	ug/L	94.5	70.0 - 130	127989148
TolueneD8 (SURR)	2438238	MS	19.5	20.0	ug/L	97.5	70.0 - 130	127989147
TolueneD8 (SURR)	2438238	MSD	19.3	20.0	ug/L	96.5	70.0 - 130	127989148

Analytical Set 1192660 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1192183	ND	14.8	50.0	ug/L	128002862
2,4,5-TP (Silvex)	1192183	ND	16.5	30.0	ug/L	128002862

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	141	142	ug/L	99.4	80.0 - 115	128002861
2,4 Dichlorophenoxyacetic acid	146	142	ug/L	103	80.0 - 115	128002866
2,4,5-TP (Silvex)	147	143	ug/L	103	80.0 - 115	128002861
2,4,5-TP (Silvex)	149	143	ug/L	104	80.0 - 115	128002866

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1192183	64.3	69.8	94.0	0.100 - 319	68.4	74.3	ug/L	8.27	30.0
2,4,5-TP (Silvex)	1192183	90.4	95.3	95.0	0.100 - 244	95.2	100	ug/L	4.92	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	138	93.6	ug/L	147	0.100 - 313	128002861
2,4-Dichlorophenylacetic Acid		CCV	139	93.6	ug/L	149	0.100 - 313	128002866
2,4-Dichlorophenylacetic Acid	1192183	Blank	129	93.6	ug/L	138	0.100 - 313	128002862
2,4-Dichlorophenylacetic Acid	1192183	LCS	128	93.6	ug/L	137	0.100 - 313	128002863
2,4-Dichlorophenylacetic Acid	1192183	LCS Dup	147	93.6	ug/L	157	0.100 - 313	128002864

Analytical Set 1192676 — EPA 622

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chlorpyrifos	1191698	ND	0.0672	40.0	ug/L	128003103

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1010	1000	ug/L	101	48.0 - 150	128003102
Chlorpyrifos	1050	1000	ug/L	105	48.0 - 150	128003107

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Chlorpyrifos	1191698	396	447	1000	0.100 - 128	39.6	44.7	ug/L	12.1	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	1010	1000	ug/L	101	0.100 - 115	128003102
Tributylphosphate		CCV	1030	1000	ug/L	103	0.100 - 115	128003107
Triphenylphosphate		CCV	1020	1000	ug/L	102	0.100 - 115	128003102
Triphenylphosphate		CCV	1020	1000	ug/L	102	0.100 - 115	128003107
Tributylphosphate	1191698	Blank	234	1000	ug/L	23.4	0.100 - 115	128003103
Tributylphosphate	1191698	LCS	376	1000	ug/L	37.6	0.100 - 115	128003104
Tributylphosphate	1191698	LCS Dup	432	1000	ug/L	43.2	0.100 - 115	128003105
Triphenylphosphate	1191698	Blank	233	1000	ug/L	23.3	0.100 - 115	128003103
Triphenylphosphate	1191698	LCS	438	1000	ug/L	43.8	0.100 - 115	128003104
Triphenylphosphate	1191698	LCS Dup	469	1000	ug/L	46.9	0.100 - 115	128003105

Analytical Set 1192678 — EPA 614

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Azinphos-methyl (Guthion)	1191698	ND	38.0	50.0	ug/L	128003115
Demeton	1191698	ND	24.1	50.0	ug/L	128003115
Diazinon	1191698	ND	9.64	50.0	ug/L	128003115
Malathion	1191698	ND	18.9	50.0	ug/L	128003115
Parathion, ethyl	1191698	ND	15.8	50.0	ug/L	128003115
Parathion, methyl	1191698	ND	18.5	40.0	ug/L	128003115

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Azinphos-methyl (Guthion)	1010	1000	ug/L	101	37.5 - 164	128003114
Azinphos-methyl (Guthion)	1010	1000	ug/L	101	37.5 - 164	128003119
Demeton	1010	1000	ug/L	101	58.6 - 150	128003114
Demeton	1070	1000	ug/L	107	58.6 - 150	128003119
Diazinon	1030	1000	ug/L	103	65.4 - 138	128003114
Diazinon	1160	1000	ug/L	116	65.4 - 138	128003119
Malathion	1000	1000	ug/L	100	49.5 - 160	128003114
Malathion	1060	1000	ug/L	106	49.5 - 160	128003119
Parathion, ethyl	1010	1000	ug/L	101	56.0 - 142	128003114
Parathion, ethyl	1090	1000	ug/L	109	56.0 - 142	128003119
Parathion, methyl	1010	1000	ug/L	101	12.6 - 194	128003114
Parathion, methyl	1070	1000	ug/L	107	12.6 - 194	128003119

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Azinphos-methyl (Guthion)	1191698	353	380	1000	0.100 - 155	35.3	38.0	ug/L	7.37	30.0
Demeton	1191698	111	283	1000	0.100 - 109	11.1	28.3	ug/L	87.3 *	30.0
Diazinon	1191698	103	116	1000	0.100 - 125	10.3	11.6	ug/L	11.9	30.0
Malathion	1191698	388	435	1000	0.100 - 130	38.8	43.5	ug/L	11.4	30.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Parathion, ethyl	1191698	370	385	1000	0.100 - 122	37.0	38.5	ug/L	3.97	30.0
Parathion, methyl	1191698	335	366	1000	0.100 - 131	33.5	36.6	ug/L	8.84	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 106	128003114
Tributylphosphate		CCV	1030	2000	ug/L	51.5	0.100 - 106	128003119
Triphenylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 172	128003114
Triphenylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 172	128003119
Tributylphosphate	1191698	Blank	234	2000	ug/L	11.7	0.100 - 106	128003115
Tributylphosphate	1191698	LCS	376	2000	ug/L	18.8	0.100 - 106	128003116
Tributylphosphate	1191698	LCS Dup	432	2000	ug/L	21.6	0.100 - 106	128003117
Triphenylphosphate	1191698	Blank	233	2000	ug/L	11.6	0.100 - 172	128003115
Triphenylphosphate	1191698	LCS	438	2000	ug/L	21.9	0.100 - 172	128003116
Triphenylphosphate	1191698	LCS Dup	469	2000	ug/L	23.4	0.100 - 172	128003117

Analytical Set 1192807 — EPA METHOD 8015C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ethylene Glycol	1192807	ND	20.0	50.0	mg/L	128006858

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ethylene Glycol	389	500	mg/L	77.8	70.0 - 130	128006855
Ethylene Glycol	526	500	mg/L	105	70.0 - 130	128006863
Ethylene Glycol	530	500	mg/L	106	70.0 - 130	128006867
Ethylene Glycol	429	500	mg/L	85.9	70.0 - 130	128006868

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ethylene Glycol	1192807	480	597	500	46.1 - 157	96.0	119	mg/L	21.4	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Ethylene Glycol	2436458	527	500	ND	500	3.50 - 183	105	100	mg/L	5.26	30.0
Ethylene Glycol	2440403	51900	43800	3500	50000	3.50 - 183	96.8	80.6	mg/L	18.3	30.0

Analytical Set 1193117 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Carbaryl (Sevin)	1191696	ND	66.1	2500	ug/L		128015668
Diuron	1191696	149	44.4	45.0	ug/L	*	128015668

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1070	1000	ug/L	107	70.0 - 130	128015667

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
Carbaryl (Sevin)	1100	1000	ug/L	110	70.0 - 130		128015670
Carbaryl (Sevin)	967	1000	ug/L	96.7	70.0 - 130		128015671
Carbaryl (Sevin)	968	1000	ug/L	96.8	70.0 - 130		128015674
Diuron	1040	1000	ug/L	104	70.0 - 130		128015667
Diuron	1070	1000	ug/L	107	70.0 - 130		128015670
Diuron	897	1000	ug/L	89.7	70.0 - 130		128015671
Diuron	906	1000	ug/L	90.6	70.0 - 130		128015674

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Carbaryl (Sevin)	1191696	585	364	1000	17.1 - 131	58.5	36.4	ug/L	46.6 *	30.0
Diuron	1191696	2.00	436	1000	0.100 - 138	0.200	43.6	ug/L	198 *	30.0

Analytical Set 1193150 — EPA 604.1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexachlorophene	1191691	ND	0.890	2.50	ug/L	128016130

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
Hexachlorophene	4660	5000	ug/L	93.2	70.0 - 130		128016129
Hexachlorophene	4660	5000	ug/L	93.1	70.0 - 130		128016136

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Hexachlorophene	1191691	41.3	30.4	50.0	25.5 - 145	82.6	60.8	ug/L	30.4	50.0

Analytical Set 1193170 — EPA 617

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Kelthane (Dicofol)	1191697	ND	7.98	10.0	ug/L	128016340
Methoxychlor	1191697	ND	0.846	1.00	ug/L	128016340
Mirex	1191697	ND	0.607	1.00	ug/L	128016340

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
Kelthane (Dicofol)	99.5	100	ug/L	99.5	60.0 - 130		128016339
Kelthane (Dicofol)	131	100	ug/L	131	60.0 - 130	*	128016351
Methoxychlor	49.6	50.0	ug/L	99.3	70.0 - 130		128016339
Methoxychlor	78.2	50.0	ug/L	156	70.0 - 130	*	128016351
Mirex	47.7	50.0	ug/L	95.4	70.0 - 130		128016339
Mirex	65.3	50.0	ug/L	131	70.0 - 130	*	128016351

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Kelthane (Dicofol)	1191697	147	156	100	0.100 - 137	147 *	156 *	ug/L	5.94	30.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Methoxychlor	1191697	61.3	61.8	50.0	21.5 - 151	123	124	ug/L	0.810	30.0
Mirex	1191697	44.3	39.9	50.0	11.6 - 140	88.6	79.8	ug/L	10.5	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	46.8	100	ug/L	46.8	10.0 - 150	128016339
Decachlorobiphenyl		CCV	58.1	100	ug/L	58.1	10.0 - 150	128016351
Tetrachloro-m-Xylene (Surr)		CCV	43.1	100	ug/L	43.1	10.0 - 150	128016339
Tetrachloro-m-Xylene (Surr)		CCV	40.6	100	ug/L	40.6	10.0 - 150	128016351
Decachlorobiphenyl	1191697	Blank	31.1	100	ug/L	31.1	10.0 - 150	128016340
Decachlorobiphenyl	1191697	LCS	91.5	100	ug/L	91.5	10.0 - 150	128016341
Decachlorobiphenyl	1191697	LCS Dup	72.1	100	ug/L	72.1	10.0 - 150	128016342
Tetrachloro-m-Xylene (Surr)	1191697	Blank	21.4	100	ug/L	21.4	10.0 - 150	128016340
Tetrachloro-m-Xylene (Surr)	1191697	LCS	40.2	100	ug/L	40.2	10.0 - 150	128016341
Tetrachloro-m-Xylene (Surr)	1191697	LCS Dup	30.0	100	ug/L	30.0	10.0 - 150	128016342

Analytical Set 1193178 EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1191697	0.851	0.528	1.00	ug/L	128016441
4,4-DDE	1191697	ND	0.370	1.00	ug/L	128016441
4,4-DDT	1191697	ND	0.696	1.00	ug/L	128016441
Aldrin	1191697	ND	0.157	1.00	ug/L	128016441
Alpha-BHC(hexachlorocyclohexane)	1191697	ND	0.266	1.00	ug/L	128016441
Beta-BHC(hexachlorocyclohexane)	1191697	ND	0.228	1.00	ug/L	128016441
Delta-BHC(hexachlorocyclohexane)	1191697	ND	0.601	1.00	ug/L	128016441
Dieldrin	1191697	ND	0.196	1.00	ug/L	128016441
Endosulfan I (alpha)	1191697	ND	0.257	1.00	ug/L	128016441
Endosulfan II (beta)	1191697	ND	0.287	1.00	ug/L	128016441
Endosulfan sulfate	1191697	ND	0.371	1.00	ug/L	128016441
Endrin	1191697	ND	0.294	1.00	ug/L	128016441
Endrin aldehyde	1191697	ND	0.452	1.00	ug/L	128016441
Gamma-BHC(Lindane)	1191697	0.484	0.398	1.00	ug/L	128016441
Heptachlor	1191697	ND	0.292	1.00	ug/L	128016441
Heptachlor epoxide	1191697	ND	0.287	1.00	ug/L	128016441
Toxaphene	1191697	ND	7.39	10.0	ug/L	128016441

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
4,4-DDD	51.3	50.0	ug/L	103	75.0 - 125		128016440
4,4-DDD	79.6	50.0	ug/L	159	75.0 - 125	*	128016452
4,4-DDE	46.0	50.0	ug/L	92.0	75.0 - 125		128016440
4,4-DDE	58.1	50.0	ug/L	116	75.0 - 125		128016452
4,4-DDT	49.1	50.0	ug/L	98.2	75.0 - 125		128016440
4,4-DDT	69.6	50.0	ug/L	139	75.0 - 125	*	128016452

QUALITY CONTROL

AWWS-A

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Aldrin	45.4	50.0	ug/L	90.8	75.0 - 125		128016440
Aldrin	59.0	50.0	ug/L	118	75.0 - 125		128016452
Alpha-BHC(hexachlorocyclohexane)	46.1	50.0	ug/L	92.2	75.0 - 125		128016440
Alpha-BHC(hexachlorocyclohexane)	62.1	50.0	ug/L	124	75.0 - 125		128016452
Beta-BHC(hexachlorocyclohexane)	45.6	50.0	ug/L	91.2	75.0 - 125		128016440
Beta-BHC(hexachlorocyclohexane)	65.6	50.0	ug/L	131	75.0 - 125	*	128016452
Delta-BHC(hexachlorocyclohexane)	45.8	50.0	ug/L	91.6	75.0 - 125		128016440
Delta-BHC(hexachlorocyclohexane)	63.3	50.0	ug/L	127	75.0 - 125	*	128016452
Dieldrin	47.0	50.0	ug/L	94.0	75.0 - 125		128016440
Dieldrin	65.2	50.0	ug/L	130	75.0 - 125	*	128016452
Endosulfan I (alpha)	46.6	50.0	ug/L	93.2	75.0 - 125		128016440
Endosulfan I (alpha)	64.0	50.0	ug/L	128	75.0 - 125	*	128016452
Endosulfan II (beta)	49.1	50.0	ug/L	98.2	75.0 - 125		128016440
Endosulfan II (beta)	67.7	50.0	ug/L	135	75.0 - 125	*	128016452
Endosulfan sulfate	49.7	50.0	ug/L	99.4	75.0 - 125		128016440
Endosulfan sulfate	66.6	50.0	ug/L	133	75.0 - 125	*	128016452
Endrin	48.4	50.0	ug/L	96.8	75.0 - 125		128016440
Endrin	64.8	50.0	ug/L	130	75.0 - 125	*	128016452
Endrin aldehyde	50.0	50.0	ug/L	100	75.0 - 125		128016440
Endrin aldehyde	59.6	50.0	ug/L	119	75.0 - 125		128016452
Gamma-BHC(Lindane)	43.0	50.0	ug/L	86.0	75.0 - 125		128016440
Gamma-BHC(Lindane)	62.4	50.0	ug/L	125	75.0 - 125		128016452
Heptachlor	46.0	50.0	ug/L	92.0	75.0 - 125		128016440
Heptachlor	70.7	50.0	ug/L	141	75.0 - 125	*	128016452
Heptachlor epoxide	45.4	50.0	ug/L	90.8	75.0 - 125		128016440
Heptachlor epoxide	62.6	50.0	ug/L	125	75.0 - 125		128016452

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1191697	60.9	56.0	50.0	31.0 - 141	122	112	ug/L	8.55	39.0
4,4-DDE	1191697	44.9	41.1	50.0	30.0 - 145	89.8	82.2	ug/L	8.84	35.0
4,4-DDT	1191697	52.4	50.5	50.0	25.0 - 160	105	101	ug/L	3.88	42.0
Aldrin	1191697	33.0	28.6	50.0	42.0 - 140	66.0	57.2	ug/L	14.3	35.0
Alpha-BHC(hexachlorocyclohexane)	1191697	35.3	28.0	50.0	37.0 - 140	70.6	56.0	ug/L	23.1	36.0
Beta-BHC(hexachlorocyclohexane)	1191697	42.7	37.7	50.0	17.0 - 147	85.4	75.4	ug/L	12.4	44.0
Delta-BHC(hexachlorocyclohexane)	1191697	46.6	42.8	50.0	19.0 - 140	93.2	85.6	ug/L	8.50	52.0
Dieldrin	1191697	46.4	41.8	50.0	36.0 - 146	92.8	83.6	ug/L	10.4	49.0
Endosulfan I (alpha)	1191697	43.4	38.9	50.0	45.0 - 153	86.8	77.8	ug/L	10.9	28.0
Endosulfan II (beta)	1191697	44.0	39.7	50.0	0.100 - 202	88.0	79.4	ug/L	10.3	53.0
Endosulfan sulfate	1191697	52.6	48.1	50.0	26.0 - 144	105	96.2	ug/L	8.75	38.0
Endrin	1191697	52.7	47.6	50.0	30.0 - 147	105	95.2	ug/L	9.79	48.0
Endrin aldehyde	1191697	45.7	41.9	50.0	37.6 - 158	91.4	83.8	ug/L	8.68	30.0
Gamma-BHC(Lindane)	1191697	33.4	27.1	50.0	32.0 - 140	66.8	54.2	ug/L	20.8	39.0
Heptachlor	1191697	31.0	25.5	50.0	34.0 - 140	62.0	51.0	ug/L	19.5	43.0
Heptachlor epoxide	1191697	40.6	35.6	50.0	37.0 - 142	81.2	71.2	ug/L	13.1	26.0

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AWWS-A

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl		CCV	46.8	100	ug/L	46.8	0.100 - 144	128016440
Decachlorobiphenyl		CCV	58.1	100	ug/L	58.1	0.100 - 144	128016452
Tetrachloro-m-Xylene (Surr)		CCV	43.1	100	ug/L	43.1	0.100 - 107	128016440
Tetrachloro-m-Xylene (Surr)		CCV	40.6	100	ug/L	40.6	0.100 - 107	128016452
Decachlorobiphenyl	1191697	Blank	31.1	100	ug/L	31.1	0.100 - 144	128016441
Decachlorobiphenyl	1191697	LCS	91.5	100	ug/L	91.5	0.100 - 144	128016442
Decachlorobiphenyl	1191697	LCS Dup	72.1	100	ug/L	72.1	0.100 - 144	128016443
Tetrachloro-m-Xylene (Surr)	1191697	Blank	21.4	100	ug/L	21.4	0.100 - 107	128016441
Tetrachloro-m-Xylene (Surr)	1191697	LCS	40.2	100	ug/L	40.2	0.100 - 107	128016442
Tetrachloro-m-Xylene (Surr)	1191697	LCS Dup	30.0	100	ug/L	30.0	0.100 - 107	128016443

Analytical Set 1193233 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1191699	ND	18.7	20.0	ug/L	128017799
PCB-1221	1191699	ND	0.0143	0.020	ug/L	128017799
PCB-1232	1191699	ND	0.0143	0.020	ug/L	128017799
PCB-1242	1191699	ND	0.0192	0.020	ug/L	128017799
PCB-1248	1191699	ND	0.0143	0.020	ug/L	128017799
PCB-1254	1191699	ND	0.0143	0.020	ug/L	128017799
PCB-1260	1191699	ND	19.0	20.0	ug/L	128017799

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1080	1000	ug/L	108	80.0 - 115		128017798
PCB-1016	1140	1000	ug/L	114	80.0 - 115		128017803
PCB-1260	1070	1000	ug/L	107	80.0 - 115		128017798
PCB-1260	1220	1000	ug/L	122	80.0 - 115	*	128017803

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1191699	682	710	1000	39.8 - 135	68.2	71.0	ug/L	4.02	30.0
PCB-1260	1191699	839	964	1000	36.1 - 134	83.9	96.4	ug/L	13.9	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1191699	Blank	31.1	100	ug/L	31.1	10.0 - 200	128017799
Tetrachloro-m-Xylene (Surr)	1191699	Blank	21.4	100	ug/L	21.4	10.0 - 200	128017799

Analytical Set 1193257 — EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1191883	ND	0.806	1.00	ug/L	128018147
1,2,4-Trichlorobenzene	1191883	ND	0.800	1.00	ug/L	128018147
1,2-Dichlorobenzene	1191883	ND	3.24	3.50	ug/L	128018147

QUALITY CONTROL

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
1,2-DPH (as azobenzene)	1191883	ND	0.619	1.00	ug/L	128018147
1,3-Dichlorobenzene	1191883	ND	0.761	1.00	ug/L	128018147
1,4-Dichlorobenzene	1191883	ND	0.773	1.00	ug/L	128018147
2,4,5-Trichlorophenol	1191883	ND	0.538	1.00	ug/L	128018147
2,4,6-Trichlorophenol	1191883	ND	0.652	1.00	ug/L	128018147
2,4-Dichlorophenol	1191883	ND	0.661	1.00	ug/L	128018147
2,4-Dimethylphenol	1191883	ND	6.97	7.00	ug/L	128018147
2,4-Dinitrophenol	1191883	ND	1.59	2.00	ug/L	128018147
2,4-Dinitrotoluene	1191883	ND	0.497	1.00	ug/L	128018147
2,6-Dinitrotoluene	1191883	ND	0.588	1.00	ug/L	128018147
2-Chloronaphthalene	1191883	ND	0.824	1.00	ug/L	128018147
2-Chlorophenol	1191883	ND	0.946	1.00	ug/L	128018147
2-Methylphenol (o-Cresol)	1191883	ND	0.692	1.00	ug/L	128018147
2-Nitrophenol	1191883	ND	0.662	1.00	ug/L	128018147
3&4-Methylphenol (m&p-Cresol)	1191883	ND	0.632	1.00	ug/L	128018147
3,3'-Dichlorobenzidine	1191883	ND	0.537	1.00	ug/L	128018147
4,6-Dinitro-2-methylphenol	1191883	ND	1.03	2.00	ug/L	128018147
4-Bromophenyl phenyl ether	1191883	ND	0.819	1.00	ug/L	128018147
4-Chlorophenyl phenyl ethe	1191883	ND	0.755	1.00	ug/L	128018147
4-Nitrophenol	1191883	ND	0.243	1.00	ug/L	128018147
Acenaphthene	1191883	ND	0.704	1.00	ug/L	128018147
Acenaphthylene	1191883	ND	0.654	1.00	ug/L	128018147
Aniline	1191883	ND	6.47	7.00	ug/L	128018147
Anthracene	1191883	ND	0.630	1.00	ug/L	128018147
Benzidine	1191883	ND	1.40	1.50	ug/L	128018147
Benzo(a)anthracene	1191883	ND	0.552	1.00	ug/L	128018147
Benzo(a)pyrene	1191883	ND	0.586	1.00	ug/L	128018147
Benzo(b)fluoranthene	1191883	ND	0.761	1.00	ug/L	128018147
Benzo(ghi)perylene	1191883	ND	1.14	2.00	ug/L	128018147
Benzo(k)fluoranthene	1191883	ND	0.844	1.00	ug/L	128018147
Benzyl Butyl phthalate	1191883	ND	0.896	1.00	ug/L	128018147
Bis(2-chloroethoxy)methane	1191883	ND	0.876	1.00	ug/L	128018147
Bis(2-chloroethyl)ether	1191883	ND	0.882	1.00	ug/L	128018147
Bis(2-chloroisopropyl)ether	1191883	ND	0.830	1.00	ug/L	128018147
Bis(2-ethylhexyl)phthalate	1191883	ND	2.11	2.50	ug/L	128018147
Chrysene (Benzo(a)phenanthrene)	1191883	ND	0.553	1.00	ug/L	128018147
Dibenz(a,h)anthracene	1191883	ND	0.975	1.00	ug/L	128018147
Diethyl phthalate	1191883	ND	0.737	1.00	ug/L	128018147
Dimethyl phthalate	1191883	ND	0.664	1.00	ug/L	128018147
Di-n-butylphthalate	1191883	ND	0.725	1.00	ug/L	128018147
Di-n-octylphthalate	1191883	ND	2.05	2.50	ug/L	128018147
Fluoranthene(Benzo(j,k)fluorene)	1191883	ND	0.692	1.00	ug/L	128018147
Fluorene	1191883	ND	0.753	1.00	ug/L	128018147
Hexachlorobenzene	1191883	ND	0.673	1.00	ug/L	128018147
Hexachlorobutadiene	1191883	ND	0.711	1.00	ug/L	128018147

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QUALITY CONTROL

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Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexachlorocyclopentadiene	1191883	ND	0.569	1.00	ug/L	128018147
Hexachloroethane	1191883	ND	0.711	1.00	ug/L	128018147
Indeno(1,2,3-cd)pyrene	1191883	ND	1.16	2.00	ug/L	128018147
Isophorone	1191883	ND	0.698	1.00	ug/L	128018147
Naphthalene	1191883	ND	0.771	1.00	ug/L	128018147
Nitrobenzene	1191883	ND	0.732	1.00	ug/L	128018147
n-Nitrosodiethylamine	1191883	ND	2.28	2.50	ug/L	128018147
N-Nitrosodimethylamine	1191883	ND	0.793	1.00	ug/L	128018147
n-Nitroso-di-n-butylamine	1191883	ND	0.550	1.00	ug/L	128018147
N-Nitrosodi-n-propylamine	1191883	ND	0.579	1.00	ug/L	128018147
N-Nitrosodiphenylamine (as DPA	1191883	ND	0.715	1.00	ug/L	128018147
p-Chloro-m-Cresol (4-Chloro-3-me	1191883	ND	0.630	1.00	ug/L	128018147
Pentachlorobenzene	1191883	ND	0.882	1.00	ug/L	128018147
Pentachlorophenol	1191883	ND	0.519	1.00	ug/L	128018147
Phenanthrene	1191883	ND	0.657	1.00	ug/L	128018147
Phenol	1191883	ND	0.404	1.00	ug/L	128018147
Pyrene	1191883	ND	0.522	1.00	ug/L	128018147
Pyridine	1191883	ND	0.580	1.00	ug/L	128018147

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2,4,5-Tetrachlorobenzene	48000	50000	ug/L	96.0	60.0 - 140	128018146
1,2,4-Trichlorobenzene	64500	50000	ug/L	129	61.0 - 130	128018146
1,2-Dichlorobenzene	49000	50000	ug/L	98.0	60.0 - 140	128018146
1,2-DPH (as azobenzene)	41200	50000	ug/L	82.4	60.0 - 140	128018146
1,3-Dichlorobenzene	51300	50000	ug/L	103	60.0 - 140	128018146
1,4-Dichlorobenzene	49600	50000	ug/L	99.2	60.0 - 140	128018146
2,4,5-Trichlorophenol	49700	50000	ug/L	99.4	69.0 - 130	128018146
2,4,6-Trichlorophenol	47600	50000	ug/L	95.2	69.0 - 130	128018146
2,4-Dichlorophenol	60400	50000	ug/L	121	64.0 - 130	128018146
2,4-Dimethylphenol	48400	50000	ug/L	96.8	58.0 - 130	128018146
2,4-Dinitrophenol	54500	50000	ug/L	109	39.0 - 173	128018146
2,4-Dinitrotoluene	55200	50000	ug/L	110	53.0 - 130	128018146
2,6-Dinitrotoluene	53300	50000	ug/L	107	68.0 - 137	128018146
2-Chloronaphthalene	46700	50000	ug/L	93.4	70.0 - 130	128018146
2-Chlorophenol	47500	50000	ug/L	95.0	55.0 - 130	128018146
2-Methylphenol (o-Cresol)	42500	50000	ug/L	85.0	60.0 - 140	128018146
2-Nitrophenol	57500	50000	ug/L	115	61.0 - 163	128018146
3&4-Methylphenol (m&p-Cresol)	39300	50000	ug/L	78.6	60.0 - 140	128018146
3,3'-Dichlorobenzidine	58400	50000	ug/L	117	18.0 - 213	128018146
4,6-Dinitro-2-methylphenol	49000	50000	ug/L	98.0	56.0 - 130	128018146
4-Bromophenyl phenyl ether	53400	50000	ug/L	107	70.0 - 130	128018146
4-Chlorophenyl phenyl ethe	56200	50000	ug/L	112	57.0 - 145	128018146
4-Nitrophenol	38900	50000	ug/L	77.8	35.0 - 135	128018146
Acenaphthene	49100	50000	ug/L	98.2	70.0 - 130	128018146

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
Acenaphthylene	51200	50000	ug/L	102	60.0 - 130		128018146
Aniline	31700	50000	ug/L	63.4	60.0 - 140		128018146
Anthracene	54600	50000	ug/L	109	58.0 - 130		128018146
Benzidine	28900	50000	ug/L	57.8	20.0 - 180		128018146
Benzo(a)anthracene	58900	50000	ug/L	118	42.0 - 133		128018146
Benzo(a)pyrene	62200	50000	ug/L	124	32.0 - 148		128018146
Benzo(b)fluoranthene	57500	50000	ug/L	115	42.0 - 140		128018146
Benzo(ghi)perylene	56300	50000	ug/L	113	13.0 - 195		128018146
Benzo(k)fluoranthene	57900	50000	ug/L	116	25.0 - 146		128018146
Benzyl Butyl phthalate	67000	50000	ug/L	134	43.0 - 140		128018146
Bis(2-chloroethoxy)methane	54000	50000	ug/L	108	52.0 - 164		128018146
Bis(2-chloroethyl)ether	42200	50000	ug/L	84.4	52.0 - 130		128018146
Bis(2-chloroisopropyl)ether	41400	50000	ug/L	82.8	63.0 - 139		128018146
Bis(2-ethylhexyl)phthalate	65200	50000	ug/L	130	43.0 - 137		128018146
Chrysene (Benzo(a)phenanthrene)	51600	50000	ug/L	103	44.0 - 140		128018146
Dibenz(a,h)anthracene	57400	50000	ug/L	115	13.0 - 200		128018146
Diethyl phthalate	53100	50000	ug/L	106	47.0 - 130		128018146
Dimethyl phthalate	51500	50000	ug/L	103	50.0 - 130		128018146
Di-n-butylphthalate	54500	50000	ug/L	109	52.0 - 130		128018146
Di-n-octylphthalate	67200	50000	ug/L	134	21.0 - 132	*	128018146
Fluoranthene(Benzo(j,k)fluorene)	58600	50000	ug/L	117	47.0 - 130		128018146
Fluorene	58200	50000	ug/L	116	70.0 - 130		128018146
Hexachlorobenzene	58500	50000	ug/L	117	38.0 - 142		128018146
Hexachlorobutadiene	62700	50000	ug/L	125	68.0 - 130		128018146
Hexachlorocyclopentadiene	39400	50000	ug/L	78.8	60.0 - 140		128018146
Hexachloroethane	46000	50000	ug/L	92.0	55.0 - 130		128018146
Indeno(1,2,3-cd)pyrene	57700	50000	ug/L	115	13.0 - 151		128018146
Isophorone	60900	50000	ug/L	122	52.0 - 180		128018146
Naphthalene	60400	50000	ug/L	121	70.0 - 130		128018146
Nitrobenzene	50400	50000	ug/L	101	54.0 - 158		128018146
n-Nitrosodiethylamine	55600	50000	ug/L	111	60.0 - 140		128018146
N-Nitrosodimethylamine	51900	50000	ug/L	104	60.0 - 140		128018146
n-Nitroso-di-n-butylamine	54500	50000	ug/L	109	60.0 - 140		128018146
N-Nitrosodi-n-propylamine	39700	50000	ug/L	79.4	59.0 - 170		128018146
N-Nitrosodiphenylamine (as DPA	54800	50000	ug/L	110	60.0 - 140		128018146
p-Chloro-m-Cresol (4-Chloro-3-me	54700	50000	ug/L	109	68.0 - 130		128018146
Pentachlorobenzene	53800	50000	ug/L	108	60.0 - 140		128018146
Pentachlorophenol	38000	50000	ug/L	76.0	42.0 - 152		128018146
Phenanthrene	53200	50000	ug/L	106	67.0 - 130		128018146
Phenol	42100	50000	ug/L	84.2	48.0 - 130		128018146
Pyrene	70500	50000	ug/L	141	70.0 - 130	*	128018146
Pyridine	45600	50000	ug/L	91.2	60.0 - 140		128018146

DFTPP

Parameter	*RefMass*	*Reading*	*%*	*Limits%*		*File*

AWWS-A

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DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	633660	198	51003	47.6	40.0 - 60.0	128018144
DFTPP Mass 197	633660	198	0	0.0	0 - 1.00	128018144
DFTPP Mass 198	633660	198	107256	100.0	100 - 100	128018144
DFTPP Mass 199	633660	198	6974	6.5	5.00 - 9.00	128018144
DFTPP Mass 275	633660	198	28607	26.7	10.0 - 30.0	128018144
DFTPP Mass 365	633660	198	4513	4.2	1.00 - 100	128018144
DFTPP Mass 441	633660	443	8676	75.5	0 - 100	128018144
DFTPP Mass 442	633660	198	60948	56.8	40.0 - 100	128018144
DFTPP Mass 443	633660	442	11485	18.8	17.0 - 23.0	128018144
DFTPP Mass 51	633660	198	36781	34.3	30.0 - 60.0	128018144
DFTPP Mass 68	633660	69.0	401	0.9	0 - 2.00	128018144
DFTPP Mass 69	633660	198	46656	43.5	0 - 100	128018144
DFTPP Mass 70	633660	69.0	317	0.7	0 - 2.00	128018144

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1191883	16.2	15.8	25.0	27.5 - 85.5	64.8	63.2	ug/L	2.50	50.0
1,2,4-Trichlorobenzene	1191883	16.0	14.8	25.0	44.0 - 142	64.0	59.2	ug/L	7.79	50.0
1,2-Dichlorobenzene	1191883	15.0	14.4	25.0	23.0 - 81.8	60.0	57.6	ug/L	4.08	50.0
1,2-DPH (as azobenzene)	1191883	19.4	17.6	25.0	12.6 - 110	77.6	70.4	ug/L	9.73	50.0
1,3-Dichlorobenzene	1191883	15.2	14.3	25.0	21.1 - 80.5	60.8	57.2	ug/L	6.10	50.0
1,4-Dichlorobenzene	1191883	15.3	14.2	25.0	21.4 - 76.9	61.2	56.8	ug/L	7.46	50.0
2,4,5-Trichlorophenol	1191883	19.2	17.1	25.0	51.3 - 109	76.8	68.4	ug/L	11.6	50.0
2,4,6-Trichlorophenol	1191883	18.7	16.6	25.0	37.0 - 144	74.8	66.4	ug/L	11.9	58.0
2,4-Dichlorophenol	1191883	18.1	16.8	25.0	39.0 - 135	72.4	67.2	ug/L	7.45	50.0
2,4-Dimethylphenol	1191883	9.12	8.40	25.0	32.0 - 120	36.5	33.6	ug/L	8.27	68.0
2,4-Dinitrophenol	1191883	18.5	15.9	25.0	0.100 - 191	74.0	63.6	ug/L	15.1	132
2,4-Dinitrotoluene	1191883	23.3	19.7	25.0	39.0 - 139	93.2	78.8	ug/L	16.7	42.0
2,6-Dinitrotoluene	1191883	21.7	19.2	25.0	50.0 - 158	86.8	76.8	ug/L	12.2	48.0
2-Chloronaphthalene	1191883	16.7	15.8	25.0	60.0 - 120	66.8	63.2	ug/L	5.54	24.0
2-Chlorophenol	1191883	16.9	15.9	25.0	23.0 - 134	67.6	63.6	ug/L	6.10	61.0
2-Methylphenol (o-Cresol)	1191883	15.2	13.6	25.0	38.9 - 76.1	60.8	54.4	ug/L	11.1	50.0
2-Nitrophenol	1191883	17.7	16.5	25.0	29.0 - 182	70.8	66.0	ug/L	7.02	55.0
3&4-Methylphenol (m&p-Cresol)	1191883	14.0	12.3	25.0	33.0 - 70.4	56.0	49.2	ug/L	12.9	50.0
3,3'-Dichlorobenzidine	1191883	17.4	15.3	25.0	0.100 - 262	69.6	61.2	ug/L	12.8	108
4,6-Dinitro-2-methylphenol	1191883	17.6	16.4	25.0	0.100 - 181	70.4	65.6	ug/L	7.06	203
4-Bromophenyl phenyl ether	1191883	19.6	17.6	25.0	53.0 - 127	78.4	70.4	ug/L	10.8	43.0
4-Chlorophenyl phenyl ethe	1191883	18.8	16.3	25.0	25.0 - 158	75.2	65.2	ug/L	14.2	61.0
4-Nitrophenol	1191883	6.93	6.40	25.0	0.100 - 132	27.7	25.6	ug/L	7.88	131
Acenaphthene	1191883	19.6	18.0	25.0	47.0 - 145	78.4	72.0	ug/L	8.51	48.0
Acenaphthylene	1191883	19.0	17.2	25.0	33.0 - 145	76.0	68.8	ug/L	9.94	74.0
Aniline	1191883	15.2	14.4	25.0	70.0 - 130	60.8 *	57.6 *	ug/L	5.41	50.0
Anthracene	1191883	21.1	18.6	25.0	27.0 - 133	84.4	74.4	ug/L	12.6	66.0
Benzidine	1191883	4.17	1.45	25.0	0.100 - 36.9	16.7	5.80	ug/L	96.9 *	90.0
Benzo(a)anthracene	1191883	20.9	18.6	25.0	33.0 - 143	83.6	74.4	ug/L	11.6	53.0

AWWS-A

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Benzo(a)pyrene	1191883	22.5	20.7	25.0	17.0 - 163	90.0	82.8	ug/L	8.33	72.0
Benzo(b)fluoranthene	1191883	21.6	19.4	25.0	24.0 - 159	86.4	77.6	ug/L	10.7	71.0
Benzo(ghi)perylene	1191883	20.1	18.5	25.0	0.100 - 219	80.4	74.0	ug/L	8.29	97.0
Benzo(k)fluoranthene	1191883	23.3	20.5	25.0	11.0 - 162	93.2	82.0	ug/L	12.8	63.0
Benzyl Butyl phthalate	1191883	24.2	21.7	25.0	0.100 - 152	96.8	86.8	ug/L	10.9	60.0
Bis(2-chloroethoxy)methane	1191883	20.6	18.9	25.0	33.0 - 184	82.4	75.6	ug/L	8.61	54.0
Bis(2-chloroethyl)ether	1191883	17.0	16.2	25.0	12.0 - 158	68.0	64.8	ug/L	4.82	108
Bis(2-chloroisopropyl)ether	1191883	17.0	16.3	25.0	36.0 - 166	68.0	65.2	ug/L	4.20	76.0
Bis(2-ethylhexyl)phthalate	1191883	23.3	23.0	25.0	8.00 - 158	93.2	92.0	ug/L	1.30	82.0
Chrysene (Benzo(a)phenanthrene)	1191883	21.5	19.6	25.0	17.0 - 168	86.0	78.4	ug/L	9.25	87.0
Dibenz(a,h)anthracene	1191883	20.5	18.5	25.0	0.100 - 227	82.0	74.0	ug/L	10.3	126
Diethyl phthalate	1191883	22.6	20.3	25.0	0.100 - 120	90.4	81.2	ug/L	10.7	100
Dimethyl phthalate	1191883	21.2	18.5	25.0	0.100 - 120	84.8	74.0	ug/L	13.6	183
Di-n-butylphthalate	1191883	23.1	20.6	25.0	1.00 - 120	92.4	82.4	ug/L	11.4	47.0
Di-n-octylphthalate	1191883	22.2	20.5	25.0	4.00 - 146	88.8	82.0	ug/L	7.96	69.0
Fluoranthene(Benzo(j,k)fluorene)	1191883	22.3	19.4	25.0	26.0 - 137	89.2	77.6	ug/L	13.9	66.0
Fluorene	1191883	19.9	18.0	25.0	59.0 - 121	79.6	72.0	ug/L	10.0	38.0
Hexachlorobenzene	1191883	19.7	17.4	25.0	0.100 - 152	78.8	69.6	ug/L	12.4	55.0
Hexachlorobutadiene	1191883	13.9	13.4	25.0	24.0 - 120	55.6	53.6	ug/L	3.66	62.0
Hexachlorocyclopentadiene	1191883	11.6	10.5	25.0	3.97 - 68.7	46.4	42.0	ug/L	9.95	50.0
Hexachloroethane	1191883	14.8	13.9	25.0	40.0 - 120	59.2	55.6	ug/L	6.27	52.0
Indeno(1,2,3-cd)pyrene	1191883	20.7	18.8	25.0	0.100 - 171	82.8	75.2	ug/L	9.62	99.0
Isophorone	1191883	19.3	17.4	25.0	21.0 - 196	77.2	69.6	ug/L	10.4	93.0
Naphthalene	1191883	17.7	16.7	25.0	21.0 - 133	70.8	66.8	ug/L	5.81	65.0
Nitrobenzene	1191883	18.5	17.3	25.0	35.0 - 180	74.0	69.2	ug/L	6.70	62.0
n-Nitrosodiethylamine	1191883	22.0	20.5	25.0	18.0 - 100	88.0	82.0	ug/L	7.06	50.0
N-Nitrosodimethylamine	1191883	13.0	12.4	25.0	30.2 - 74.9	52.0	49.6	ug/L	4.72	50.0
n-Nitroso-di-n-butylamine	1191883	20.3	17.9	25.0	48.4 - 98.5	81.2	71.6	ug/L	12.6	50.0
N-Nitrosodi-n-propylamine	1191883	18.8	17.3	25.0	0.100 - 230	75.2	69.2	ug/L	8.31	87.0
N-Nitrosodiphenylamine (as DPA	1191883	19.7	18.0	25.0	49.3 - 94.2	78.8	72.0	ug/L	9.02	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1191883	18.4	16.2	25.0	22.0 - 147	73.6	64.8	ug/L	12.7	70.0
Pentachlorobenzene	1191883	17.9	16.4	25.0	39.3 - 93.7	71.6	65.6	ug/L	8.75	50.0
Pentachlorophenol	1191883	18.0	15.8	25.0	14.0 - 176	72.0	63.2	ug/L	13.0	86.0
Phenanthrene	1191883	20.8	18.5	25.0	54.0 - 120	83.2	74.0	ug/L	11.7	39.0
Phenol	1191883	7.14	7.02	25.0	5.00 - 120	28.6	28.1	ug/L	1.76	64.0
Pyrene	1191883	20.3	18.4	25.0	52.0 - 120	81.2	73.6	ug/L	9.82	49.0
Pyridine	1191883	12.5	9.51	25.0	11.2 - 50.6	50.0	38.0	ug/L	27.3	50.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	633116	CCV	69000	100000	ug/L	69.0	10.0 - 150	128018146
2-Fluorophenol-SURR	633116	CCV	52600	100000	ug/L	52.6	10.0 - 150	128018146
4-Terphenyl-d14-SURR	633116	CCV	63700	50000	ug/L	127	30.0 - 150	128018146
Nitrobenzene-d5-SURR	633116	CCV	48800	50000	ug/L	97.6	30.0 - 150	128018146
Phenol-d6-SURR	633116	CCV	51700	100000	ug/L	51.7	10.0 - 150	128018146

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

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Printed 10/03/2025

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	1191883	Blank	47.3	100	ug/L	47.3	10.0 - 150	128018147
2,4,6-Tribromophenol	1191883	LCS	64.2	100	ug/L	64.2	10.0 - 150	128018148
2,4,6-Tribromophenol	1191883	LCS Dup	54.2	100	ug/L	54.2	10.0 - 150	128018149
2-Fluorophenol-SURR	1191883	Blank	28000	100000	ug/L	28.0	10.0 - 150	128018147
2-Fluorophenol-SURR	1191883	LCS	33200	100000	ug/L	33.2	10.0 - 150	128018148
2-Fluorophenol-SURR	1191883	LCS Dup	31800	100000	ug/L	31.8	10.0 - 150	128018149
4-Terphenyl-d14-SURR	1191883	Blank	43000	50000	ug/L	86.0	30.0 - 150	128018147
4-Terphenyl-d14-SURR	1191883	LCS	45000	50000	ug/L	90.0	30.0 - 150	128018148
4-Terphenyl-d14-SURR	1191883	LCS Dup	39400	50000	ug/L	78.8	30.0 - 150	128018149
Nitrobenzene-d5-SURR	1191883	Blank	34800	50000	ug/L	69.6	30.0 - 150	128018147
Nitrobenzene-d5-SURR	1191883	LCS	39000	50000	ug/L	78.0	30.0 - 150	128018148
Nitrobenzene-d5-SURR	1191883	LCS Dup	36400	50000	ug/L	72.8	30.0 - 150	128018149
Phenol-d6-SURR	1191883	Blank	23600	100000	ug/L	23.6	10.0 - 150	128018147
Phenol-d6-SURR	1191883	LCS	25500	100000	ug/L	25.5	10.0 - 150	128018148
Phenol-d6-SURR	1191883	LCS Dup	23600	100000	ug/L	23.6	10.0 - 150	128018149

Analytical Set 1193269 — EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Bisphenol A	1191883	ND	1.86	10.0	ug/L	128018298

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Bisphenol A	56100	50000	ug/L	112	70.0 - 130	128018297

Analytical Set 1193791 — EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1193791	174	213	0.6	0 - 2.00	128028772
BFB Mass 174	1193791	95.0	35952	93.2	50.0 - 100	128028772
BFB Mass 175	1193791	174	2576	7.2	5.00 - 9.00	128028772
BFB Mass 176	1193791	174	34923	97.1	95.0 - 101	128028772
BFB Mass 177	1193791	176	2339	6.7	5.00 - 9.00	128028772
BFB Mass 50	1193791	95.0	6041	15.7	15.0 - 40.0	128028772
BFB Mass 75	1193791	95.0	15753	40.9	30.0 - 60.0	128028772
BFB Mass 95	1193791	95.0	38555	100.0	100 - 100	128028772
BFB Mass 96	1193791	95.0	2688	7.0	5.00 - 9.00	128028772

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Epichlorohydrin	1193791	ND	6.85	20.0	ug/L	128028776

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Epichlorohydrin	187	200	ug/L	93.5	70.0 - 130	128028773

QUALITY CONTROL

AWWS-A

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1193791	CCV	112800	112800	56390	169200	128028773	1193791
1,4-DichlorobenzeneD4 (ISTD)	1193791	LCS	116200	112800	56390	169200	128028774	1193791
1,4-DichlorobenzeneD4 (ISTD)	1193791	LCS Dup	122000	112800	56390	169200	128028775	1193791
1,4-DichlorobenzeneD4 (ISTD)	1193791	Blank	105900	112800	56390	169200	128028776	1193791
ChlorobenzeneD5 (ISTD)	1193791	CCV	213300	213300	106600	319900	128028773	1193791
ChlorobenzeneD5 (ISTD)	1193791	LCS	210800	213300	106600	319900	128028774	1193791
ChlorobenzeneD5 (ISTD)	1193791	LCS Dup	228400	213300	106600	319900	128028775	1193791
ChlorobenzeneD5 (ISTD)	1193791	Blank	198900	213300	106600	319900	128028776	1193791

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1193791	LCS	10.17	10.17	10.11	10.23	128028774	1193791
1,4-DichlorobenzeneD4 (ISTD)	1193791	LCS Dup	10.17	10.17	10.11	10.23	128028775	1193791
1,4-DichlorobenzeneD4 (ISTD)	1193791	Blank	10.16	10.17	10.11	10.23	128028776	1193791
ChlorobenzeneD5 (ISTD)	1193791	LCS	7.860	7.861	7.801	7.921	128028774	1193791
ChlorobenzeneD5 (ISTD)	1193791	LCS Dup	7.860	7.861	7.801	7.921	128028775	1193791
ChlorobenzeneD5 (ISTD)	1193791	Blank	7.861	7.861	7.801	7.921	128028776	1193791

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Epichlorohydrin	1193791	181	167	200	27.5 - 189	90.5	83.5	ug/L	8.05	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1193791	CCV	20.3	20.0	ug/L	102	72.3 - 106	128028773
1,2-DCA-d4 (SURR)	1193791	LCS	19.4	20.0	ug/L	97.0	72.3 - 106	128028774
1,2-DCA-d4 (SURR)	1193791	LCS Dup	19.6	20.0	ug/L	98.0	72.3 - 106	128028775
1,2-DCA-d4 (SURR)	1193791	Blank	19.9	20.0	ug/L	99.5	72.3 - 106	128028776
Bromofluorobenzene (SURR)	1193791	CCV	19.9	20.0	ug/L	99.5	87.2 - 122	128028773
Bromofluorobenzene (SURR)	1193791	LCS	19.8	20.0	ug/L	99.0	87.2 - 122	128028774
Bromofluorobenzene (SURR)	1193791	LCS Dup	19.8	20.0	ug/L	99.0	87.2 - 122	128028775
Bromofluorobenzene (SURR)	1193791	Blank	20.0	20.0	ug/L	100	87.2 - 122	128028776
Dibromofluoromethane (SURR)	1193791	CCV	19.6	20.0	ug/L	98.0	46.7 - 114	128028773
Dibromofluoromethane (SURR)	1193791	LCS	20.1	20.0	ug/L	100	46.7 - 114	128028774
Dibromofluoromethane (SURR)	1193791	LCS Dup	20.2	20.0	ug/L	101	46.7 - 114	128028775
Dibromofluoromethane (SURR)	1193791	Blank	20.2	20.0	ug/L	101	46.7 - 114	128028776
TolueneD8 (SURR)	1193791	CCV	19.9	20.0	ug/L	99.5	57.4 - 112	128028773
TolueneD8 (SURR)	1193791	LCS	20.1	20.0	ug/L	100	57.4 - 112	128028774
TolueneD8 (SURR)	1193791	LCS Dup	20.1	20.0	ug/L	100	57.4 - 112	128028775
TolueneD8 (SURR)	1193791	Blank	20.1	20.0	ug/L	100	57.4 - 112	128028776

Analytical Set 1194301 — ASTM D7065-17

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1193418	ND	5.00	30.0	ug/L	128040568

Email: Kilgore.ProjectManagement@spllabs.com

AWWS-A

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Nonylphenol	144000	150000	ug/L	96.0	70.0 - 130	128040567
Nonylphenol	181000	150000	ug/L	121	70.0 - 130	128040575

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
Acenaphthene-d10-ISTD	631656	CCV	49620	49620	24810	74430	128040567	631656
Acenaphthene-d10-ISTD	631656	CCV	55750	49620	24810	74430	128040575	631656
Phenanthrene-d10-ISTD	631656	CCV	77040	77040	38520	115600	128040567	631656
Phenanthrene-d10-ISTD	631656	CCV	93600	77040	38520	115600	128040575	631656
Acenaphthene-d10-ISTD	1193418	Blank	25260	49620	24810	74430	128040568	1193418
Acenaphthene-d10-ISTD	1193418	LCS	44680	49620	24810	74430	128040569	1193418
Acenaphthene-d10-ISTD	1193418	LCS Dup	38790	49620	24810	74430	128040570	1193418
Phenanthrene-d10-ISTD	1193418	Blank	40980	77040	38520	115600	128040568	1193418
Phenanthrene-d10-ISTD	1193418	LCS	71090	77040	38520	115600	128040569	1193418
Phenanthrene-d10-ISTD	1193418	LCS Dup	63210	77040	38520	115600	128040570	1193418

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
Acenaphthene-d10-ISTD	631656	CCV	7.165	7.165	7.105	7.225	128040567	631656
Acenaphthene-d10-ISTD	631656	CCV	7.165	7.165	7.105	7.225	128040575	631656
Phenanthrene-d10-ISTD	631656	CCV	8.404	8.404	8.344	8.464	128040567	631656
Phenanthrene-d10-ISTD	631656	CCV	8.398	8.404	8.344	8.464	128040575	631656
Acenaphthene-d10-ISTD	1193418	Blank	7.165	7.165	7.105	7.225	128040568	1193418
Acenaphthene-d10-ISTD	1193418	LCS	7.165	7.165	7.105	7.225	128040569	1193418
Acenaphthene-d10-ISTD	1193418	LCS Dup	7.165	7.165	7.105	7.225	128040570	1193418
Phenanthrene-d10-ISTD	1193418	Blank	8.403	8.404	8.344	8.464	128040568	1193418
Phenanthrene-d10-ISTD	1193418	LCS	8.403	8.404	8.344	8.464	128040569	1193418
Phenanthrene-d10-ISTD	1193418	LCS Dup	8.403	8.404	8.344	8.464	128040570	1193418

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Nonylphenol	1193418	96.8	78.1	150	56.0 - 112	64.5	52.1 *	ug/L	21.3	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
4-Nonylphenol-SURR	631656	CCV	23500	25000	ug/L	94.0	50.0 - 130	128040567
4-Nonylphenol-SURR	631656	CCV	30000	25000	ug/L	120	50.0 - 130	128040575
4-Nonylphenol-SURR	1193418	Blank	7160	25000	ug/L	28.6 *	50.0 - 130	128040568
4-Nonylphenol-SURR	1193418	LCS	14200	25000	ug/L	56.8	50.0 - 130	128040569
4-Nonylphenol-SURR	1193418	LCS Dup	10600	25000	ug/L	42.4 *	50.0 - 130	128040570

Analytical Set 1195353 TX 1001

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Tributyltin hydride	1193430	ND	0.005	0.007	ug/L	128066628

QUALITY CONTROL

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributyltin hydride	42700	50000	ug/L	85.4	70.0 - 130	128066624

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Tributyltin hydride	1193430	73.8	87.0	500	0.100 - 211	14.8	17.4	ug/L	16.1	30.0

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

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); CCB - Continuing Calibration Blank; ICV - Initial Calibration Verification; MRL Check - Minimum Reporting Limit Check Std; 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.); IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; DFTPP - GC/MS Tuning Compound

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SPL The Science of Sure

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AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

AWWS-A 154

Lab Number J438805

PO Number

Phone 903/668-4133

Domestic Worksheet 4.0

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start

Date: 8/19/25 Time: 0900

Sampler Printed Name: ____________

Sampler Affiliation: ____________

Sampler Signature: ____________

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 On Site Testing

ClCk Field Cl2 Check for CNa

Field Cl2 Check for CNa

Collected By ______ Date ______ Time ______ Analyzed By ______ Date ______ Time ______

Results ______ Units ______ Temp. ______ C Duplicate ______ Units ______ Temp. ______ C

R1 ______ R2 ______ QC R1 ______ QC R2 ______

NELAC Short Hold Cr6F Hex Cr, Field Preservation SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Hex Cr, Field Preservation

Collected By ______ Date ______ Time ______ Analyzed By ______ Date ______ Time ______

S2Ck Field Sulfide Check for CNa

2600 Dudley Rd. Kilgore, Texas 75662
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AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
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Field Sulfide Check for CNa

Collected By _____ Date _____ Time _____ Analyzed By _____ Date _____ Time _____

Results _____ Units _____ Temp. _____ C Duplicate _____ Units _____ Temp. _____ C

R1 _____ R2 _____ QC R1 _____ QC R2 _____

---

9 Amber Glass Qt w/Teflon lined lid, Q

	!CPP	Permit Organophos. Pesticides	EPA 614 (7.00 days)
NELAC	!D2S	Table D-1/ D-2 Semivolatiles Exp	EPA 625.1 (7.00 days)
NELAC	!HER	Herbicides by GC	EPA 615 (7.00 days)
NELAC	!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
NELAC	!PPR	TTO Pesticides	EPA 608.3 (7.00 days)
/	#MDR	For use with !PPR only	EPA 617 (7.00 days)
NELAC	402E	For use with EXP !CPP only	EPA 622 (7.00 days)
	BPAE	Bisphenol A Expansion	EPA 625.1 CAS:80-05-7 (7.00 days)
	HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 days)
	TBTE	Butyltin Expansion	TX 1001 (14.0 days)
NELAC	TYLC	Carbaryl/Diuron EXP	EPA 632 (7.00 days)

6 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid, Q

NELAC	!EGE	Ethylene Glycol Expansion	EPA METHOD 8015C CAS:107-21-1 (30.0 days)
NELAC Short Hold	$AAE	Acrolein/Acrylonitrile Exp.	EPA 624.1 (3.00 days)
NELAC	$EPI	Epichlorohydrin Exp.	EPA 624.1 (14.0 days)

2 H2SO4 to pH <2 GlQt w/Tef-lined lid, Q

	NYPE	Nonyl Phenol Expansion	ASTM D7065-17 (14.0 days)

1 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid, Q

NELAC	Phna	Phenolics, Total Recoverable	EPA 420.4 1 (28.0 days)

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	3	Amber Glass Liter w/Teflon lined lid, Q		
Subcontract		!DIX	Dioxins and Furans Subcontract	1613 CAS:ION1 (30.0 days)
	0	Z -- No bottle required		
Subcontract		100S	SUB Shipped	
		CKLM	Check Limits	
MEAC	Short Hold	Cr+3	Trivalent Chromium	Calculation CAS:16065-83-1 (1.00 days)
		HgKt	LL Mercury Test Prep	
		SKL	Sub Hold: PM Attn	
	1	HNO3 to pH <2 Polyethylene 500 mL for Metals, Q		
MEAC		*AgM	Silver, Total	EPA 200.8 5.4 CAS:7440-22-4 (180 days)
MEAC		*AlM	Aluminum, Total	EPA 200.8 5.4 CAS:7429-90-5 (180 days)
MEAC		*AsM	Arsenic, Total	EPA 200.8 5.4 CAS:7440-38-2 (180 days)
MEAC		*BaM	Barium, Total	EPA 200.8 5.4 CAS:7440-39-3 (180 days)
MEAC		*BeM	Beryllium, Total	EPA 200.8 5.4 CAS:7440-41-7 (180 days)
MEAC		*CdM	Cadmium, Total	EPA 200.8 5.4 CAS:7440-43-9 (180 days)
MEAC		*CrM	Chromium, Total	EPA 200.8 5.4 CAS:7440-47-3 (180 days)
MEAC		*CuM	Copper, Total	EPA 200.8 5.4 CAS:7440-50-8 (180 days)
MEAC		*NiM	Nickel, Total	EPA 200.8 5.4 CAS:7440-02-0 (180 days)
MEAC		*PbM	Lead, Total	EPA 200.8 5.4 CAS:7439-92-1 (180 days)
MEAC		*SbM	Antimony, Total	EPA 200.8 5.4 CAS:7440-36-0 (180 days)
MEAC		*SeM	Selenium, Total	EPA 200.8 5.4 CAS:7782-49-2 (180 days)
MEAC		*TlM	Thallium, Total	EPA 200.8 5.4 CAS:7440-28-0 (180 days)
MEAC		*ZnM	Zinc, Total	EPA 200.8 5.4 CAS:7440-66-6 (180 days)
		301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)
	3	Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace), Q		
Short Hold		$VOP	Table D-1/D-2 w/MTBE	EPA 624.1 (3.00 days)

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

SPL
The Science of Sure

CHAIN OF CUSTODY

Printed 07/23/2025 Page 4 of 4

AWWS Analytical Water & Wastewater Services Inc.
Arlin Braun
695 Shady Lane
Hallsville, TX 75650-

AWWS-A
154

1 Glass /clean metals w/HCl, Q

NELAC	*Hgl	Mercury, Total (low level)	EPA 245.7 2 CAS:7439-97-6 (90.0 days)
NELAC	245l	Low Level Mercury Liquid Metals	EPA 245.7 2 (90.0 days)

2 NaOH to pH >12 Polyethylene 250 mL/amber, Q

NELAC	CNa	Cyanide, total	SM 4500-CN⁻ E-2016 (14.0 days)
NELAC	CN-A	Cyanide - Available/Amenable	SM 4500-CN⁻ G-2016 (14.0 days)
NELAC	CNCl	Cyanide After Chlorination	SM 4500-CN⁻ G-2016 (14.0 days)

1 Polyethylene Quart, Q

NELAC	!FlL	Fluoride	EPA 300.0 2.1 (28.0 days)
NELAC Short Hold	!N3L	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)

1 Cr+6 Preserved 250 Polyethylene

NELAC Short Hold	Cr+6	Hexavalent Chromium	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
8/20/25	0855	Printed Name ARLIN BRAUN Affiliation Signature A. Braun	Printed Name Sarah Shivers - SPL, Inc. Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Signature

8/20/25 0855 551
Date Time Tech
Temp: 1.2 1.6 C

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

If Shipped: Tracking Number & Temp - See Attached

Therm#: 6443 Corr Fact: 0.4 C

The accredited column designates accreditation by A - A2LA, N - NELAC, or Z - not listed under scope of accreditation. Unless otherwise specified, all listed parameters these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000327

Comments

1164029 CoC Print Group 001 of 002

RUSK

Samples Submitted By:
Name: Erin Crafton
Company: AWWS
Address:
City, St Zip:
Phone: 903-668-4133 Fax:

Laboratory Chain-of-Custody
A W W S , INC.
Analytical Water and Wastewater Services, Inc.
695 Shady Ln, Hallsville, TX 75650. Phone (903) 668-4133. Fax (903) 668-1095
AWWSinc@gmail.com

Project Number: | Project Description: | AWWS Project Manager:

Analyses Requested

Sample Identification/Location	Date	Time	Matrix	Grab/ Comp	Iced Y/N	Preservative	No. Contnrs	P/G	See Attached List	Comments
Rusk Permit	8/19/25	900	NPW	G					X	

8/20/25 0855 SSI
Date Time Tech
Temp: 1.2 1.4 C
Therm#: 6443 Corr Fact: 0.4 C

Samples Collected By (~~Signature~~):
[ ] Client [ ] AWWS City of Rusk

Method of Shipment:

Comments:

Relinquished By:	Date/Time:	Received By:
x City of Rusk	8/19/25 1300	Mike Davis
Mike Davis	8/19/25 1650	G. Braun
G. Braun	8/20/25 0855	Logged in at AWWS Laboratory By: Sarah Shivers - SPL, Inc.

AWWS COC Rev 3 Effective 10/1/24

Sample Received on Ice? □ Yes □ No Temp_____
Cooler/Sample Secure? □ Yes □ No Therm. ID: #5 Nubee

pg.1 of 1
issued by AWWS, Inc

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~~					
~~Total Suspended Solids, mg/l~~					
~~Ammonia Nitrogen, mg/l~~					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
~~Chloride, mg/l~~					
~~Total Phosphorus, mg/l~~					
~~pH, standard units~~					
~~Dissolved Oxygen*, mg/l~~					
~~Chlorine Residual, mg/l†~~					
~~*E.coli (CFU/100ml freshwater~~					
~~Enterococci (CFU/100ml)~~					
~~Salinity~~					
Total Dissolved Solids, mg/l					
Electrical Conductivity, umohs/cm, †					
~~Oil & Grease, mg/l~~					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

we need:
Nitrate
TKN
SO4
Conductivity
Alkalinity
from this list

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: Click to enter text.

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

Facility Operator's License Number: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following is **required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene			5	
Hexachlorobutadiene			10	
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☐

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

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentachlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10

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

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)			0.05	0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.03
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

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

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 08/20/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample	2438805
Taken:	08/19/2025 09:00:00
	GRAB
Normal	

coll_temp

RUSK PERMIT

3 1 Amber Glass Liter w/Teflon lined lid, Q

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
08/20/2025 09:25	Affiliation SPL Kilgore Printed Name Andy Owens Signature	08/20/2025 09:25	Affiliation SPL Kilgore Printed Name Michael D. Gribble Signature Michael D Gribble
	Printed Name Michael D. Gribble Affiliation SPL Kilgore Signature Michael D Gribble		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
Cooler/Sample Secure? ☐ Yes ☐ No

Method of Shipment: ☐ UPS ☐ Bus ☐ FedEx ☐ Lone Star ☐ Hand Delivered ☐ Other

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 1159002

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spllabs.com

3.25.8.16

Form rptSampleSUBNSPL Created 11/16/2020 v1.6

1164029 CoC Print Group 002 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

SPL The Science of Sure

SUBCONTRACT CHAIN OF CUSTODY

Printed 08/20/2025 Page 1 of 1

Subcontract to:

ALS Laboratory Group/Houstor
10450 Stancliff Rd
Houston TX 77099

/ -

Sample	2438805
Taken:	08/19/2025 09:00:00
	GRAB
Normal	

coll temp

RUSK PERMIT

3 x Amber Glass Liter w/Teflon lined lid, Q

Requested Test(s)

!DIX Dioxins and Furans Subcontract 1613

Shipping Temp 4C

Previous Results:

Date Time	Relinquished	Date Time	Received
08/20/2025 09:25	Affiliation SPL Kilgore Printed Name Andy Owens Signature	08/20/2025 09:25	Affiliation SPL Kilgore Printed Name Michael D. Gribble Signature Michael D Gribble
	Printed Name Michael D. Gribble Affiliation SPL Kilgore Signature Michael D Gribble		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
Cooler/Sample Secure? [ ] Yes [ ] No

Method of Shipment: [ ] UPS [ ] Bus [ ] FedEx [ ] Lone Star [ ] Hand Delivered [ ] Other

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 fedex 413195170106

8-20-25

Project 1159002

Corporate - Kilgore: 2600 Dudley Road Kilgore TX 75662

Kilgore.ProjectManagement@spllabs.com

3.25.8.16

Form rptSampleSUBNSPL Created 11/16/2020 v1.6

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600335616		**RN 103000766**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 9/14/2025

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

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

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

City of Rusk

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

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

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

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

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

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

15. Mailing Address:	108 East 5th St.						
	City	Rusk	**State**	TX	**ZIP**	75785	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	vminton@rusktx.org

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(903) 683-2213		(903) 683-5964

SECTION III: Regulated Entity Information

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

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

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

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

City of Rusk Wastewater Treatment Plant

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

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

25. Description to Physical Location:	The plant site is approximately 1.5 miles south of the intersection of 8th Street and Main Street in Cherokee County, Texas 75785.

26. Nearest City	State	Nearest ZIP Code
Rusk	TX	75785

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

27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	46	25	95	09	12

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
9199		921190	

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

City Government

34. Mailing Address:	**108 East Main St.**						
	City	**Rusk**	**State**	**TX**	**ZIP**	**75785**	**ZIP + 4**
35. E-Mail Address:	**vminton@rusktx.org**						

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(903) 683-2213		**(903) 683-5964**

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

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

SECTION IV: Preparer Information

40. Name:	Erin Crafton	**41. Title:**	Vice President

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(903 **)** 668-4133		**(** 903 **)** 668-1095	awwsinc@gmail.com

SECTION V: Authorized Signature

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

Company:	City of Rusk	**Job Title:**	Preparer
Name *(In Print):*	Erin Crafton	**Phone:**	**(** 903 **)** 668- **4133**
Signature:	Erin Crafton	**Date:**	10/31/2025

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

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.

The City of Rusk (CN600335616) operates the City of Rusk wastewater treatment plant (RN103000766), an activated sludge plant that operates in extended aeration mode. The facility is located at approximately 1.5 miles south of the intersection of 8th Street and Main Street, in Rusk, Cherokee County, Texas 75785. This application is for a renewal to discharge at an annual average flow of 1.75 million gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli.* Additional pollutants are included in the Domestic Technical Report 1.0, Section 7 Pollutant Analysis of Treated Effluent in the permit application package. Domestic Wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basin, 2 clarifiers, chlorine contact chamber, and 2 sludge drying beds.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Rusk

   Permit No. WQ00 10447001 EPA ID No. TX 0054399

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

   The plant site is approximately 1.5 miles south of the intersection of 8th Street and Main Street in Cherokee County, Texas.

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

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

First and Last Name: Thomas Thompson

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Public Works Director

Mailing Address: 108 East 5th St.

City, State, Zip Code: Rusk, TX 75785

Phone No.: 903-683-2213 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: tthompson@rusktx.org

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

N/A. Private Property Owner

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

To One Eye Creek; thence to Box Creek; thence to the Neches River below Lake Palestine in Segment No. 0604 of the Neches River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

n/a

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

n/a

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

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

Click here to enter text.

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

Click here to enter text.

Francesca Findlay

From: Francesca Findlay
Sent: Friday, November 14, 2025 3:29 PM
To: 'AWWS, Inc.'
Subject: RE: FW: WQ0010447001 City of Rusk

Good afternoon,

We were unable to confirm payment of the application processing fee. Please submit payment to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, provide a copy of the check along with the response to this letter.

Thank you,

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

From: AWWS, Inc. <awwsinc@gmail.com>
Sent: Sunday, November 9, 2025 12:50 PM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Subject: Re: FW: WQ0010447001 City of Rusk

Francesca,
1. Attached is the payment submittal form with the attached check. It is check number 5238 issued by AWWS, Inc.
2. A hard copy was mailed to TCEQ on Nov. 1 and should be delivered by now.
3. A revised Core Data From is attached. We also updated the SPIF and Plain Language Summary.
4. In reviewing the NORI, the City's address needs to be revised to show 108 East 5th St., Rusk, TX.
Thank you,
Erin Crafton

On Thu, Oct 23, 2025 at 3:54 PM Francesca Findlay <Francesca.Findlay@tceq.texas.gov> wrote:

Dear Ms. Crafton:

The attached Notice of Deficiency letter sent on October 23, 2025, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention November 7, 2025.

Thank you,

Francesca Findlay

License & Permit Specialist

ARP Team | Water Quality Division

512-239-2441

Texas Commission on Environmental Quality

Francesca Findlay

From: AWWS, Inc. <awwsinc@gmail.com>
Sent: Sunday, November 9, 2025 12:50 PM
To: Francesca Findlay
Subject: Re: FW: WQ0010447001 City of Rusk
Attachments: 05_Attachment 3 - SPIF - revised.pdf; 03_Attachment 2 - Plain Language Summary - revised.pdf; 02_Attachment 1 - Core Data Form - 10400 - revised.pdf; Rusk Payment Submittal Form.pdf

Francesca,
1. Attached is the payment submittal form with the attached check. It is check number 5238 issued by AWWS, Inc.
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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.