



Administrative Package Cover Page

This file contains the following documents:

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



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, por sus siglas en inglés)
 - Inglés
 - Idioma alternativo (español)
3. Solicitud original

Plain Language Summary

Domestic Wastewater TPDES Renewal application

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

Kingsland Municipal Utility District (CN600625453) operates the Kingsland MUD wastewater treatment facility (RN100532019), an activated sludge process plant operated in complete mix mode. The facility is located at 100 Ingram Street in Kingsland, Llano County, Texas 78639. This application is for a renewal to discharge at an annual average flow of 750,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), total Phosphorus, and *Escherichia coli*. Domestic wastewater is treated by an activated sludge process plant and the treatment units include aeration basins, bio-clarifiers, aerobic digester, thickener, tertiary filter, and chlorine contact chamber.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES

NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Kingsland Municipal Utility District (CN600625453) opera Kingsland MUD wastewater treatment facility (RN100532019, una planta de proceso de lodos activados operada en modo de mezcla completa. La instalación está ubicada en 100 Ingram Street, en Kingsland, Condado de Llano, Texas 78639. Esta solicitud es para una renovación para descargar a un flujo promedio anual de 750,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), sólidos suspendidos totales (SST), fósforo total y *Escherichia coli*. Aguas residuales domésticas. está tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluyen balsas de aireación, bioclarificadores, digestor aeróbico, espesador, filtro terciario y cámara de contacto de cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0011549001

APPLICATION. Kingsland Municipal Utility District, P.O. Box 748, Kingsland, Texas 78639, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011549001 (EPA I.D. No. TX0066010) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 750,000 gallons per day. The domestic wastewater treatment facility is located at 100 Ingram Street, in the city of Kingsland, in Llano County, Texas 78639. The discharge route is from the plant site directly to Lake Lyndon B. Johnson. TCEQ received this application on August 22, 2024. The permit application will be available for viewing and copying at Kingsland Municipal Utility District, front desk, 100 Ingram Street, Kingsland, in Llano County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/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=-98.435277,30.658333&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

El aviso de idioma alternativo en español está disponible en

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

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 Kingsland Municipal Utility District at the address stated above or by calling Mr. J. Horry, General Manager, at 325-388-4559.

Issuance Date: September 6, 2024

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA RENOVACION

PERMISO NO. WQ0011549001

SOLICITUD. Distrito Municipal de Servicios Públicos de Kingsland, P.O. Box 748, Kingsland, Texas 78639, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011549001 (EPA I.D. No. TX0066010) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 750,000 galones por día. La planta está ubicada en 100 Ingram Street, en la ciudad de Kingsland en el Condado de Llano, Texas. La ruta de descarga es del sitio de la planta directamente al lago Lyndon B. Johnson. La TCEQ recibió esta solicitud el 22 de agosto de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en 100 Ingram Street, Kingsland, en el condado de Llano, Texas, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.435277,30.658333&level=18>

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar **comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los**

comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <http://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión

de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Distrito de servicios públicos municipal de Kingsland a la dirección indicada arriba o llamando al Sr. J Horry, director general, al 325-388-4559.

Fecha de emission: 06 de septiembre de 2024

Kingsland Municipal Utility District

Domestic Wastewater Permit Renewal Application

Permit No. WQ0011549001

Submitted To
Texas Commission on Environmental Quality



Prepared by:
Jones – Heroy & Associates, Inc.
TBPE REGISTRATION # F-006320
2204 South Hwy 281, Suite D
Lampasas, Texas 76550

August 2024



JONES - HEROY & ASSOCIATES, INC.

VIA HAND DELIVERY

August 22, 2024

Texas Commission on Environmental Quality
Applications Review and Processing Team
Building F, Room 2101
12100 Park Circle
Austin, Texas 78753

RE: Wastewater Discharge Permit Renewal Application
Kingsland Municipal Utility District, Permit No. WQ0011549001
JHA Project No. 1005-035

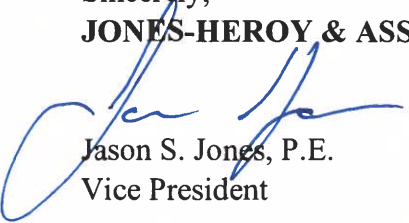
To Whom It May Concern:

On behalf of the Kingsland Municipal Utility District (District), we are submitting an original and two copies of an application for renewal of the Domestic Wastewater Permit for the Kingsland Municipal Utility District, which includes a copy of a \$1,615 check that was submitted by the District to the Texas Commission on Environmental Quality for the application fee.

The remaining samples for effluent data required for Table 1.0(2) have been submitted to the laboratory for analysis in August 2024. These results will be delivered to your office as soon as that information is available.

Should you have any questions or need additional information regarding the application, please contact me at 512-556-2300 or jasonj@jones-heroy.com.

Sincerely,
JONES-HEROY & ASSOCIATES, INC.



Jason S. Jones, P.E.
Vice President

Enclosures

cc: Mr. J. Horry, General Manager, Kingsland MUD



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Kingsland Municipal Utility District

PERMIT NUMBER (If new, leave blank): WQ00 WQ0011549001

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	☐	☒
Public Involvement Plan Form	☐	☒	Flow Diagram	☒	☐
Technical Report 1.0	☒	☐	Site Drawing	☒	☐
Technical Report 1.1	☐	☒	Original Photographs	☐	☒
Worksheet 2.0	☒	☐	Design Calculations	☐	☒
Worksheet 2.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 3.0	☐	☒	Water Balance	☐	☒
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: 4264
Check/Money Order Amount: \$1,615.00
Name Printed on Check: Jones-Heroy & Associates, Inc.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

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

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

- ☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

- ☐ 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 11549001

EPA I.D. (TPDES only): TX 0066010

Expiration Date: February 19, 2025

Section 3. Facility Owner (Applicant) and Co-Appllcant 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?

Kingsland Municipal Utility District

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

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

CN: 600625453

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: Ms.

Last Name, First Name: Wolfington, Dianne

Title: Board President

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

B. Co-appllcant 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-appllcant 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.

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr.

Last Name, First Name: Horry, J.

Title: General Manager

Credential: Click to enter text.

Organization Name: Kingsland Municipal Utility District

Mailing Address: P.O. Box 748

City, State, Zip Code: Kingsland, TX 78639

Phone No.: 325-388-4559

E-mail Address: jhorry@kingslandmud.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr.

Last Name, First Name: Jones, Jason

Title: Vice President

Credential: P.E.

Organization Name: Jones-Heroy & Associates, Inc.

Mailing Address: 2204 South Hwy 281, Suite D

City, State, Zip Code: Lampasas, TX 76550

Phone No.: 512-556-2300

E-mail Address: jasonj@jones-heroy.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: Horry, J.

Title: General Manager

Credential: Click to enter text.

Organization Name: Kingsland Municipal Utility District

Mailing Address: P.O. Box 748

City, State, Zip Code: Kingsland, TX 78639

Phone No.: 325-388-4559

E-mail Address: jhorry@kingslandmud.com

B. Prefix: Mr. Last Name, First Name: Jones, Jason
Title: Vice President Credential: P.E.
Organization Name: Jone-Heroy & Associates, Inc.
Mailing Address: 2204 South Hwy 281, Suite D City, State, Zip Code: Lampasas, TX 76550
Phone No.: 512-556-2300 E-mail Address: jasonj@jones-heroy.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Horry, J.
Title: General Manager Credential: Click to enter text.
Organization Name: Kingsland Municipal Utility District
Mailing Address: P.O. Box 748 City, State, Zip Code: Kingsland, TX 78639
Phone No.: 325-388--4559 E-mail Address: jhorry@kingslandmud.com

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

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

Prefix: Mr. Last Name, First Name: Stewart, Thomas
Title: Operations Manager Credential: Click to enter text.
Organization Name: Kingsland Municipal Utility District
Mailing Address: P.O. Box 748 City, State, Zip Code: Kingsland, TX 78639
Phone No.: 325-388-4559 E-mail Address: oms@kingslandmud.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mrs. Last Name, First Name: Brack, Stacy
Title: Associate Credential: Click to enter text.
Organization Name: Jones-Heroy & Associates, Inc.
Mailing Address: 2204 South Hwy 281, Suite D City, State, Zip Code: Lampasas, TX 76550
Phone No.: 512-556-2300 E-mail Address: stacyb@jones-heroy.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr.

Last Name, First Name: Horry, J.

Title: General Manager

Credential: Click to enter text.

Organization Name: Kingsland Municipal Utility District

Mailing Address: P.O. Box 748

City, State, Zip Code: Kingsland, TX 78639

Phone No.: 325-388-4559

E-mail Address: jhorry@kingslandmud.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: Kingsland Municipal Utility District Office

Location within the building: Front Desk

Physical Address of Building: 100 Ingram Street

City: Kingsland

County: Llano

Contact (Last Name, First Name): Horry, J.

Phone No.: 325-388-4559 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? Spanish.

F. Plain Language Summary Template

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

Attachment: 1

G. Public Involvement Plan Form

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

Attachment: Click to enter text.

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN 100532019

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):

Kingsland Municipal Utility District Wastewater Treatment Plant

C. Owner of treatment facility: Kingsland Municipal Utility District

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

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Kingsland MUD

Credential: Click to enter text.

Organization Name: Kingsland Municipal Utility District

Mailing Address: P.O. Box 748

City, State, Zip Code: Kingsland, TX 78639

Phone No.: 325-388-4559

E-mail Address: jhorry@kingslandmud.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: N/A

Last Name, First Name: N/A

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

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

Attachment: Click to enter text.

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

Prefix: N/A

Last Name, First Name: N/A

Title: 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): Kingsland

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

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: N/A

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

N/A

- B. City nearest the disposal site: 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.

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Attachment 1 – Plain Language Summary; Attachment 2 – USGS Topographic Map; Attachment 3 – SPIF USGS General Location & Service Area Map; Attachment 4 – Process Flow Diagram; Attachment 5 – Site Drawing – Treatment Facility Boundary & General Location & Service Area Map; Attachment 6 – Lab Results; Attachment 7 - Permit to Process WWTP Sludge.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011549001

Applicant: Kingsland Municipal Utility District

Certification:

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

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

Signatory name (typed or printed): Dianne Wolfington

Signatory title: Board President

Signature: Dianne Wolfington Date: 8-21-24
(Use blue ink)

Subscribed and Sworn to before me by the said Dianne Wolfington
on this 21st day of August, 2024.
My commission expires on the 19th day of April, 2027.

Cherie Kennedy
Notary Public

Llano
County, Texas



Administrative Report
Administrative Report 1.1
Not Required

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

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No: WQ0011549001**

1. Check or Money Order Number: 4264
2. Check or Money Order Amount: \$1,615.00
3. Date of Check or Money Order: 8/8/2024
4. Name on Check or Money Order: Jones-Heroy & Associates, Inc.

5. APPLICATION INFORMATION

Name of Project or Site: Kingsland MUD Wastewater Treatment Facility

Physical Address of Project or Site: 100 Ingram Street, Kingsland, TX 78639

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

Staple Check or Money Order in This Space

CHECK MAILED TO THE TCEQ UNDER SEPARATE COVER.



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 600625453		RN 100532019

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		8/1/2024	
☐ 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)					
<i>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).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) <i>If new Customer, enter previous Customer below:</i>					
Kingsland Municipal Utility District					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits) 742082855	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 ☐ Other:					
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant					
15. Mailing Address:	Kingsland Municipal Utility District				
	P.O. Box 748				
	City	Kingsland	State	TX	ZIP 78639 ZIP + 4 5244
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				jhorry@kingslandmud.com	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

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.)

Kingsland MUD Wastewater Treatment Facility

23. Street Address of the Regulated Entity:

(No PO Boxes)

100 Ingram Street

City	Kingsland	State	TX	ZIP	78639	ZIP + 4	5244
-------------	-----------	--------------	----	------------	-------	----------------	------

24. County

Llano

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

25. Description to Physical Location:

N/A

26. Nearest City
State
Nearest ZIP Code

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
---------	---------	---------	---------	---------	---------

29. Primary SIC Code
30. Secondary SIC Code
31. Primary NAICS Code
32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

221320

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

Special District, Wastewater Treatment

34. Mailing Address:

Kingsland Municipal Utility District

P.O. Box 748

City	Kingsland	State	TX	ZIP	78639	ZIP + 4	5244
-------------	-----------	--------------	----	------------	-------	----------------	------

35. E-Mail Address:

jhorry@kingslandmud.com

36. Telephone Number
37. Extension or Code
38. Fax Number (if applicable)

(325) 388-4559

(325) 388-5003

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.

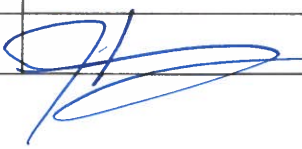
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☒ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
WQ0004962000				
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0011549001			

SECTION IV: Preparer Information

40. Name:	Jason S. Jones			41. Title:	Vice President, Jones-Heroy & Associates, Inc.
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512) 553-2300		() -	jasonj@jones-heroy.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:	Kingsland Municipal Utility District		Job Title:	General Manager	
Name (In Print):	J. Horry			Phone:	(325) 388- 4559
Signature:				Date:	8/21/24

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Landowners Labels or USB Drive attached ☒ N/A ☐ Yes
(See instructions for landowner requirements)

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

Plain Language Summary ☒ Yes



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.75

2-Hr Peak Flow (MGD): 2.25

Estimated construction start date: Completed

Estimated waste disposal start date: 03/08/1982

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: March 1982

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

The WWTP is an activated sludge facility. Sewage flows into the headworks of the plant for screening and is pumped to the aeration basins. From here, the sewage flows to the bio-clarifiers. The waste sludge is pumped to the digester. The effluent from the bio-clarifiers flows into a tertiary filter which polishes the effluent. Effluent then flows to a chlorine contact chamber prior to discharge. After the digester, the sludge flows to the thickener and then to the sludge drying beds. Sludge is delivered to Kingsland Municipal Utility District Composting Facility.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin No. 1	1	56' x 26.5' x 25.6' SWD
Aeration Basin Nos. 2 & 3	2	56' x 19' x 14' SWD
Bio-Clarifier No. 1	1	12' SWD x 50' Dia.
Bio-Clarifier Nos. 2 & 3	2	10' SWD x 35' Dia.
Aerobic Digester	1	45' x 19' x 14' SWD
Thickener	1	11' SWD x 10' Dia.
Tertiary Filter	1	10' x 10' x 8'
Chlorine Contact	1	30' x 20' x 7' SWD

C. Process Flow Diagram

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

Attachment: 4

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

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

- Latitude: 30 Deg 39 Min 30 Sec
- Longitude: 98 Deg 26 Min 07 Sec

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

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

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: 5

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

Kingsland Municipal Utility District boundary, see Attachment 5.

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
Kingsland MUD Collection System	Kingsland Municipal Utility District	Publicly Owned	7,028
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: March 1982

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.**

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

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.

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.

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

4. *Existing coverage in individual permit*

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

☐ Yes ☐ No

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

Click to enter text.

5. *Zero stormwater discharge*

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

☐ Yes ☐ No

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

Click to enter text.

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

6. *Request for coverage in individual permit*

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

☐ Yes ☐ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

Table 1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities *Results not noted below to be submitted once received from lab. See Attachment 6 additional lab results obtained and not listed below.*

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	<1.00		1	Grab	11/14/2023 @15:00
Total Suspended Solids, mg/l	<1.00		1	Grab	11/14/2023 @ 15:00
Ammonia Nitrogen, mg/l	<0.200		1	Grab	11/14/2023 @ 15:00
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l	0.77		1	Grab	11/14/2023 @ 15:00
pH, standard units	6.60	7.12	2	Grab	11.1/23-11.30.23
Dissolved Oxygen*, mg/l	7.66	7.78	4	Grab	11.1/23-11.30.23
Chlorine Residual, mg/l	2.74		1	Grab	11/15/2023 @10:20
<i>E.coli</i> (CFU/100ml) freshwater	<2.00		1	Grab	11/15/2023 @10:20
Enterococci (CFU/100ml) saltwater	N/A				
Total Dissolved Solids, mg/l					
Electrical Conductivity, μ mohs/cm, †	N/A				
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

Table 1.0(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					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Thomas M. Stewart

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

Facility Operator's License Number: WW0052894

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Distribution & Marketing-Composting	On-Site Owner or Operator	Bulk	.66	Class A: PFRP Composting	Option 5: Aerobic process for 14 days at >40C
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): Permittee transports to its permitted WWTP sludge processing facility.

D. Disposal site

Disposal site name: Kingsland MUD Compost Facility

TCEQ permit or registration number: WQ0004962000

County where disposal site is located: Llano

E. Transportation method

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

Name of the hauler: Kingsland Municipal Utility District

Hauler registration number: RN101457497

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

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

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

- Site map:

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

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

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

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

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

[Click to enter text.](#)

B. Temporary storage information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

[Click to enter text.](#)

D. Site development plan

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

[Click to enter text.](#)

Attach the following documents to the application.

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

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

E. Groundwater monitoring

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

☐ Yes ☐ No

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

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

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

A. Additional authorizations

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

☐ Yes ☒ No

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

[Click to enter text.](#)

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

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

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: J. Horry

Title: General Manager

Signature:  _____

Date: 8/21/24 _____

TCEQ Accreditation Certificate

Lower Colorado River Authority - Environmental
Laboratory Services

State Lab ID: T104704218

Document ID: TX-C24-00094

Effective Date: 04/01/2024

Expiration Date: 03/31/2025



Texas Commission on
Environmental Quality

Certificate of Accreditation



Accreditation is hereby granted to

Lower Colorado River Authority - Environmental Laboratory Services

3505 Montopolis Drive
Austin, TX 78744-1499

State Lab ID: T104704218
Effective Date: 04/01/2024
Expiration Date: 03/31/2025
Document ID: TX-C24-00094

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

A handwritten signature in cursive script that reads "K Keel".

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/01/2024

Technical Report
Technical Report 1.1
Not Required

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 64)

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 to 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 64)

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 64)

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 65)

Name of the immediate receiving waters: [Click to enter text.](#)

A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☐ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [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.

[Click to enter text.](#)

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

[Click to enter text.](#)

E. Normal dry weather characteristics

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

[Click to enter text.](#)

Date and time of observation: [Click to enter text.](#)

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

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

☐ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: [Click to enter text.](#)

B. Waterbody uses

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

- | | |
|--|--|
| ☐ Livestock watering | ☐ Contact recreation |
| ☐ Irrigation withdrawal | ☐ Non-contact recreation |
| ☐ Fishing | ☐ Navigation |
| ☐ Domestic water supply | ☐ Industrial water supply |
| ☐ Park activities | ☐ 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

Technical Report
Technical Report 2.1
Not Required

Technical Report
Worksheet 3.0
Not Required

Technical Report
Worksheet 3.1
Not Required

Technical Report
Worksheet 3.2
Not Required

Technical Report
Worksheet 3.3
Not Required

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: See Attachment 6 – Lab Results

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

Technical Report
Worksheet 5.0
Not Required

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 89)

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: 0

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

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 90)

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 90)

A. General information

Company Name: N/A (No Significant Industrial Users)

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

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).

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ 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: N/A

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.

N/A

Technical Report
Worksheet 7.0
Not Required

List of Attachments
Kingsland Municipal Utility District
Permit WQ 0011549001
Renewal Application 2024

Attachment No.	Description
1	Administrative Report Section 8, Plain Language Summary
2	Administrative Report Section 13, USGS Topographic Map
3	Administrative Report, SPIF TCEQ Form 20971 7.5 Minute USGS Quadrangle – General Location & Service Area Map
4	Technical Report 1.0, Section 2(c) Process Flow Diagram
5	Technical Report, Section 3 Site Drawing – Treatment Facility Boundary & General Location & Service Area Map
6	Technical Report, Section 7 and Worksheet 4.0 Lab Results
7	Technical Report, Section 9 Permit to Process Wastewater Treatment Plant Sludge Dated July 14, 2022

Notes:

1. Attachment 6, Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent – Not all lab results were available at the time of application submittal. The rest of the results will be submitted to the TCEQ under separate cover once received from the lab.

Attachment 1
Administrative Report
Section 8 - Plain Language Summary

Plain Language Summary

Domestic Wastewater TPDES Renewal application

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

Kingsland Municipal Utility District (CN600625453) operates the Kingsland MUD wastewater treatment facility (RN100532019), an activated sludge process plant operated in complete mix mode. The facility is located at 100 Ingram Street in Kingsland, Llano County, Texas 78639. This application is for a renewal to discharge at an annual average flow of 750,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), total Phosphorus, and *Escherichia coli*. Domestic wastewater is treated by an activated sludge process plant and the treatment units include aeration basins, bio-clarifiers, aerobic digester, thickener, tertiary filter, and chlorine contact chamber.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES

NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

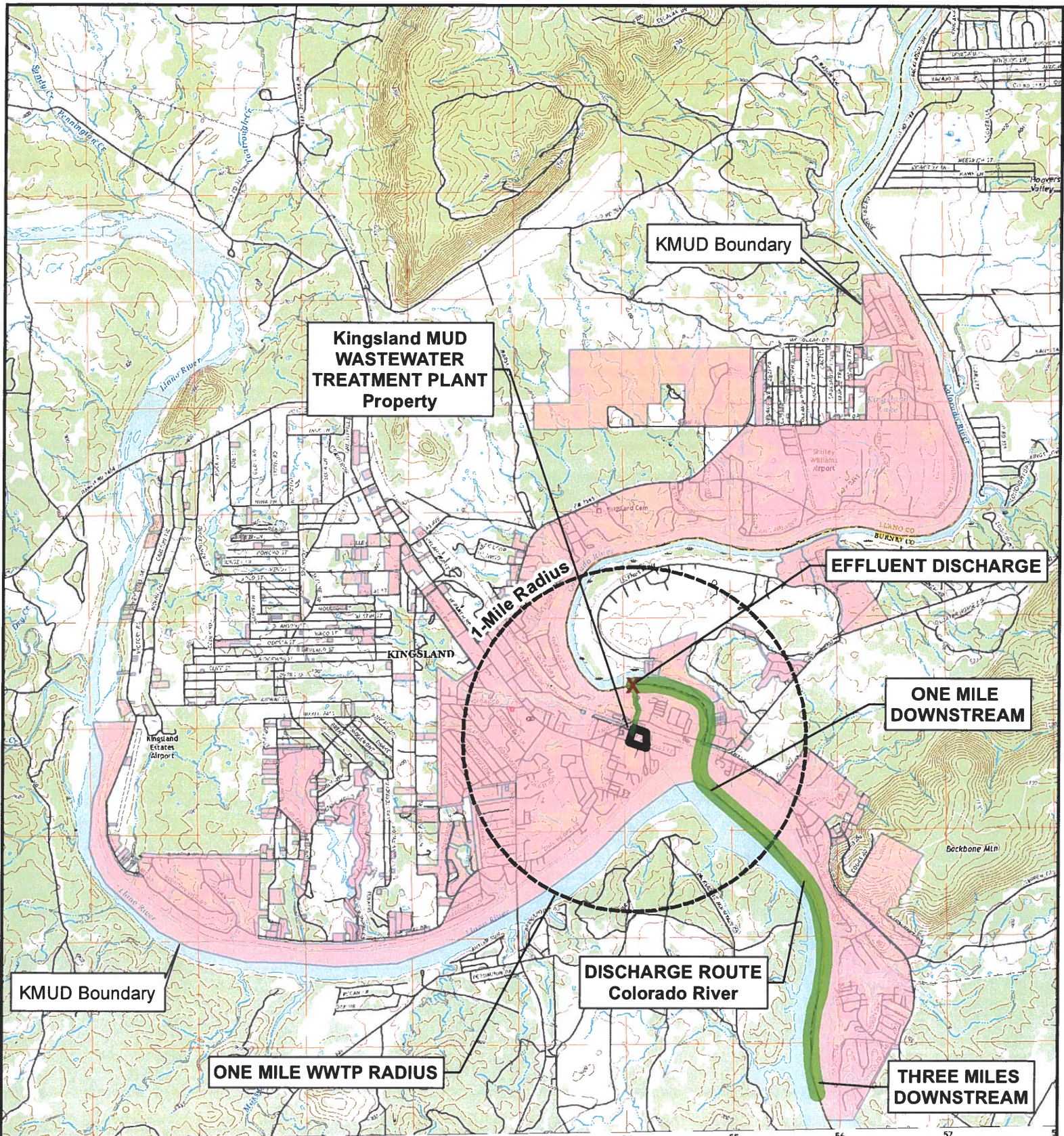
AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Kingsland Municipal Utility District (CN600625453) opera Kingsland MUD wastewater treatment facility (RN100532019, una planta de proceso de lodos activados operada en modo de mezcla completa. La instalación está ubicada en 100 Ingram Street, en Kingsland, Condado de Llano, Texas 78639. Esta solicitud es para una renovación para descargar a un flujo promedio anual de 750,000 galones por día de aguas residuales domésticas tratadas.

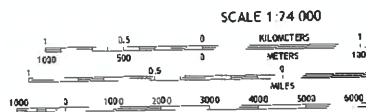
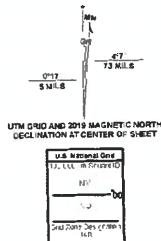
Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de cinco días (CBOD₅), sólidos suspendidos totales (SST), fósforo total y *Escherichia coli*. Aguas residuales domésticas. está tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluyen balsas de aireación, bioclarificadores, digestor aeróbico, espesador, filtro terciario y cámara de contacto de cloro.

Attachment 2
Administrative Report
Section 13 - USGS Topographic Map



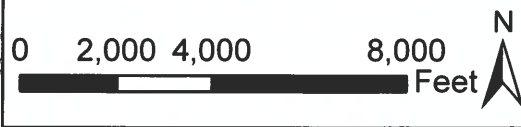
Produced by the United States Geological Survey
 North American Datum of 1983 (NAD83)
 World Geodetic System of 1984 (WGS84) Projection and
 1 000-meter grid/Universal Transverse Mercator, Zone 14R
 This map is not a legal document. Boundaries may be
 generalized for this map scale. Private lands within government
 reservations may not be shown. Obtain permission before
 entering private lands.

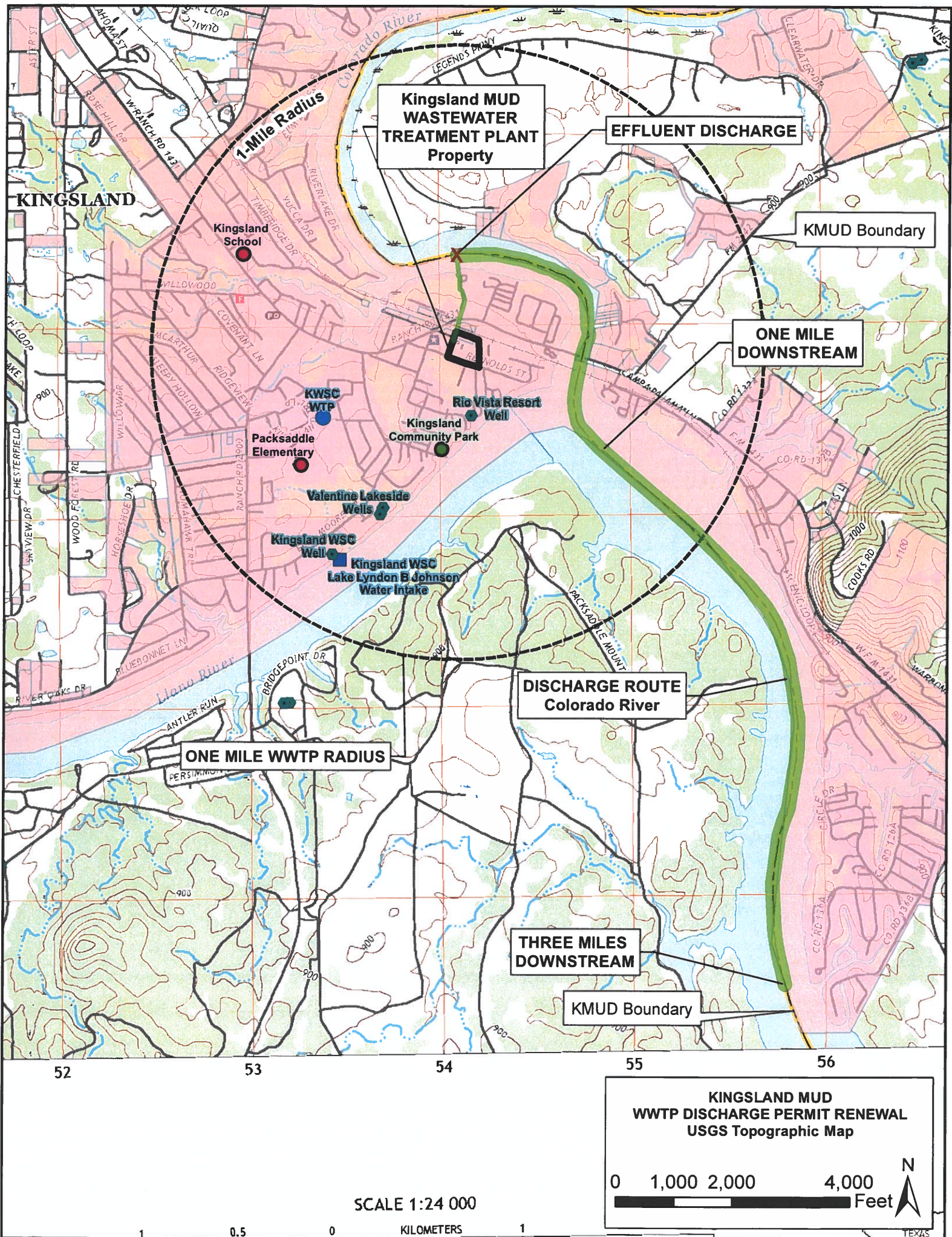
Imagery: USGS, August 2016 - November 2016
 Roads: U.S. Census Bureau, 2015 - 2018
 Names: U.S. Census Bureau, 2015 - 2018
 Hydrography: National Hydrography Dataset, 2001 - 2016
 Contours: National Elevation Dataset, 2011
 Boundaries: Multiple sources; see metadata file 2019 - 2021
 Wetlands: FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 20 FEET
 NORTH AMERICAN VERTICAL DATUM OF 1983
 This map was produced to conform with the
 National Geospatial Program US Topographic Series

KINGSLAND MUD WWTP DISCHARGE PERMIT RENEWAL USGS Topographic Map





Attachment 3
Administrative Report
SPIF - TCEQ Form 20971
7.5 Minute USGS Quadrangle Map - General Location & Service Area Map

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: Kingsland Municipal Utility District

Permit No. WQ00 11549001

EPA ID No. TX 0066010

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

100 Ingram Street. Kingsland, Llano County

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

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

First and Last Name: J. Horry

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

Title: General Manager

Mailing Address: P.O. Box 748

City, State, Zip Code: Kingsland, TX 78639

Phone No.: 325-388-4559 Ext.: Fax No.: 325-388-5002

E-mail Address: jhorry@kingslandmud.com

2. List the county in which the facility is located: Llano
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

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.

Effluent is discharged via pipeline to Segment 1406 of the Colorado 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:

Existing Wastewater Treatment Plant

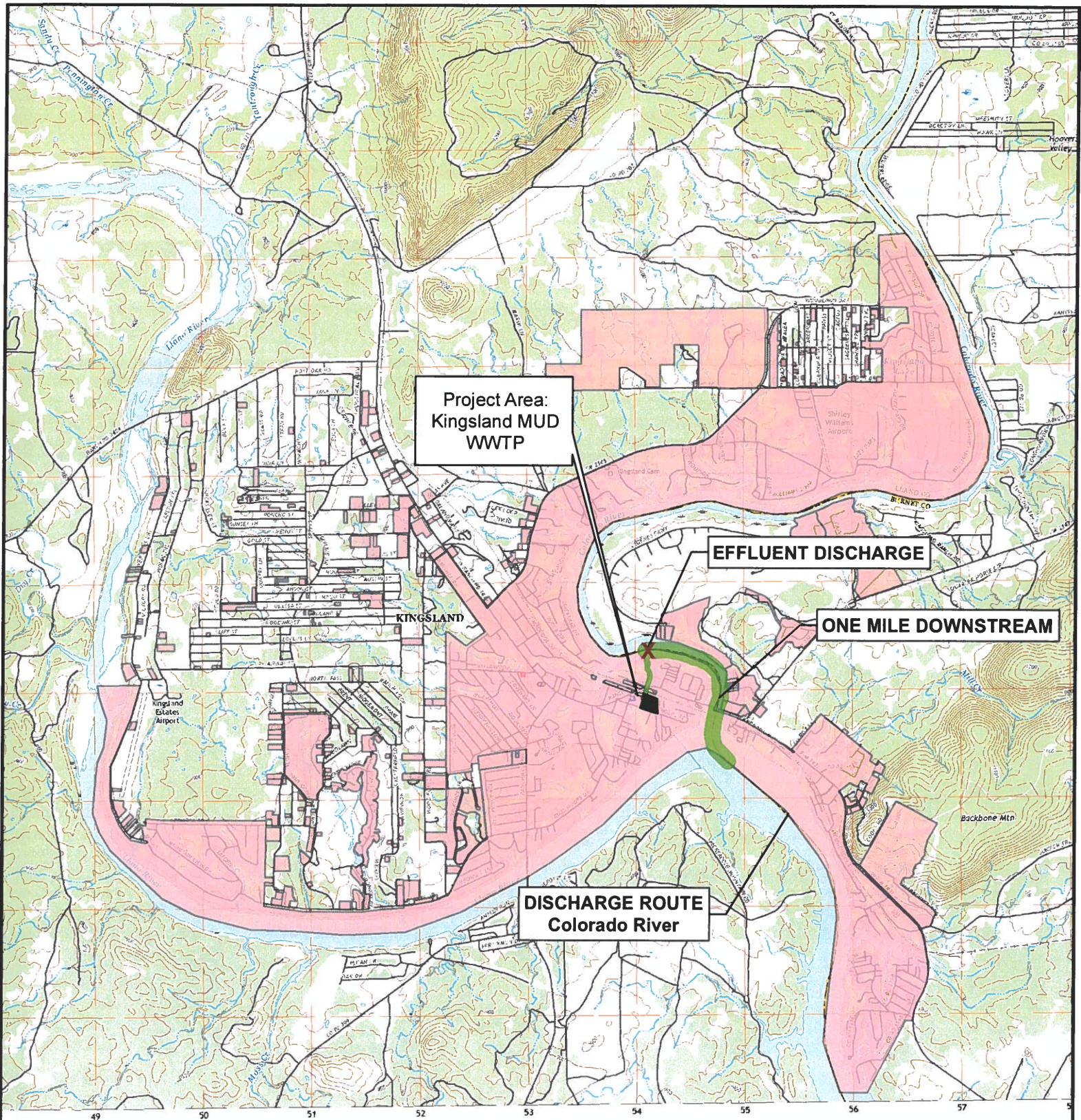
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

N/A

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

N/A

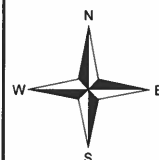


Legend:

- Project Area
- Kingsland MUD Boundary

**Kingsland Municipal Utility District
General Location and Service Area Map**

Project Name:
Kingsland MUD
WWTP Permit Renewal
Project Number:
1005-035
Date:
August 2024



0 4,000 8,000
Feet

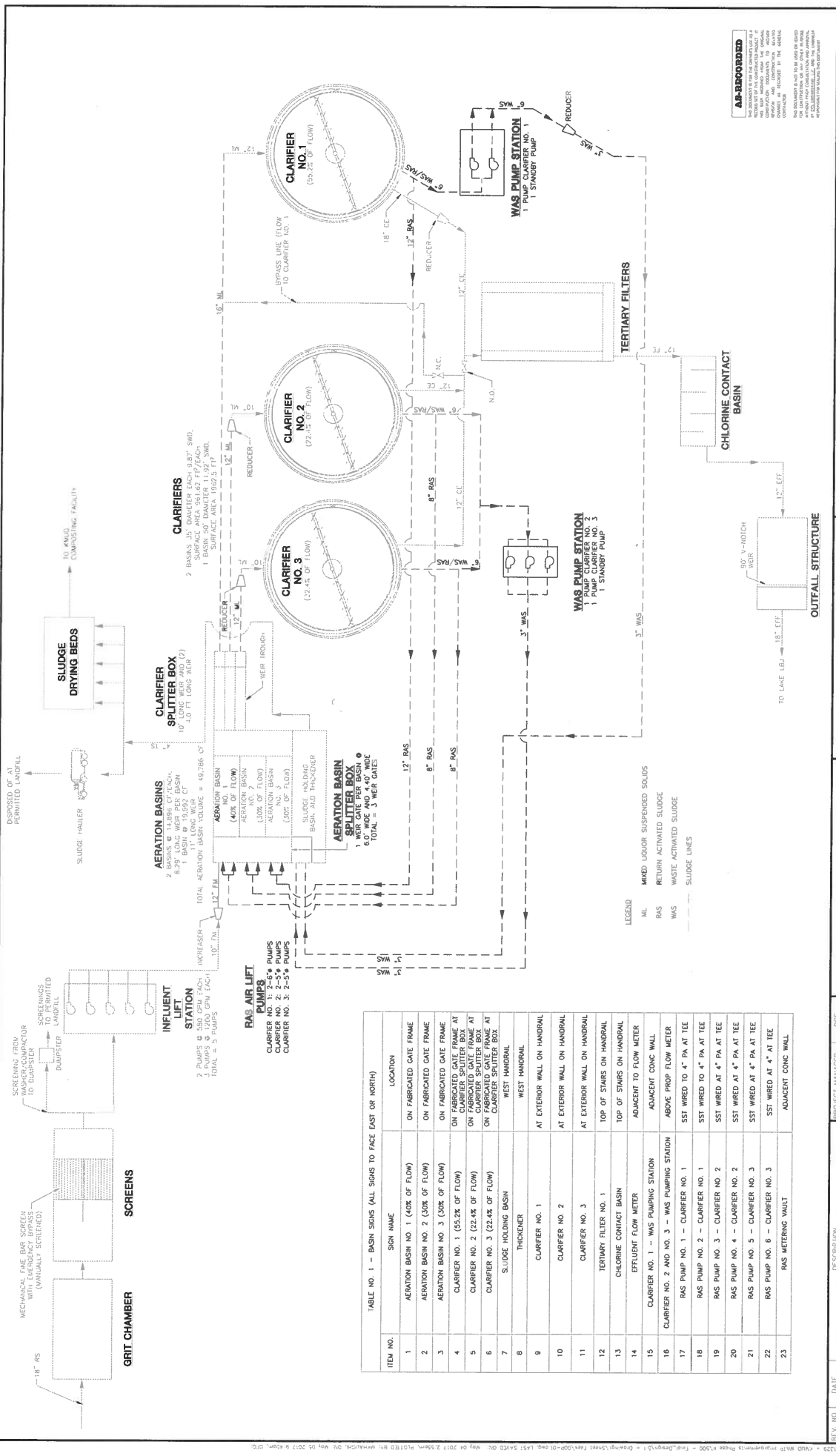
JONES - HEROY & ASSOCIATES, INC.

2204 South HWY 281
Suite D
Lampasas, TX 76550



Office: (512) 556-2300
Fax: (512) 556-5304
TBE Firm No. F-006320

Attachment 4
Technical Report
Section 2(c) – Process Flow Diagram



GENERAL

DATE: APRIL 2017

SCALE: AS NOTED

DRAWING: 00P-01

PROCESS - FLOW DIAGRAM

KINGSLAND MUNICIPAL UTILITY DISTRICT

WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE II

5/1/17

DCS ENGINEERING, LLC
1001 E. CANTON, TEXAS
HIGHWAY, BUILDING G-100
AUSTIN, TX 78746
TEL: (512) 914-6171
FAX: (512) 914-6172
E-MAIL: JCS@DCSENG.COM

PROJECT MANAGER: DCS

DESIGNED BY: PMA

CHECKED BY: DCS

DRAWN BY: DCS

DCS PROJECT NO.: 20101229

AS-BUILT

THIS DOCUMENT IS FOR THE AS-BUILT RECORD OF THE PROJECT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE. ANY CHANGES TO THE ORIGINAL DESIGN SHALL BE RECORDED IN THE AS-BUILT RECORD. THIS DOCUMENT IS NOT TO BE USED FOR ANY OTHER PURPOSE. ANY CHANGES TO THE ORIGINAL DESIGN SHALL BE RECORDED IN THE AS-BUILT RECORD.

Attachment 5
Technical Report
Section 3 - Site Drawing
Treatment Facility Boundary & General Location & Service Area Map



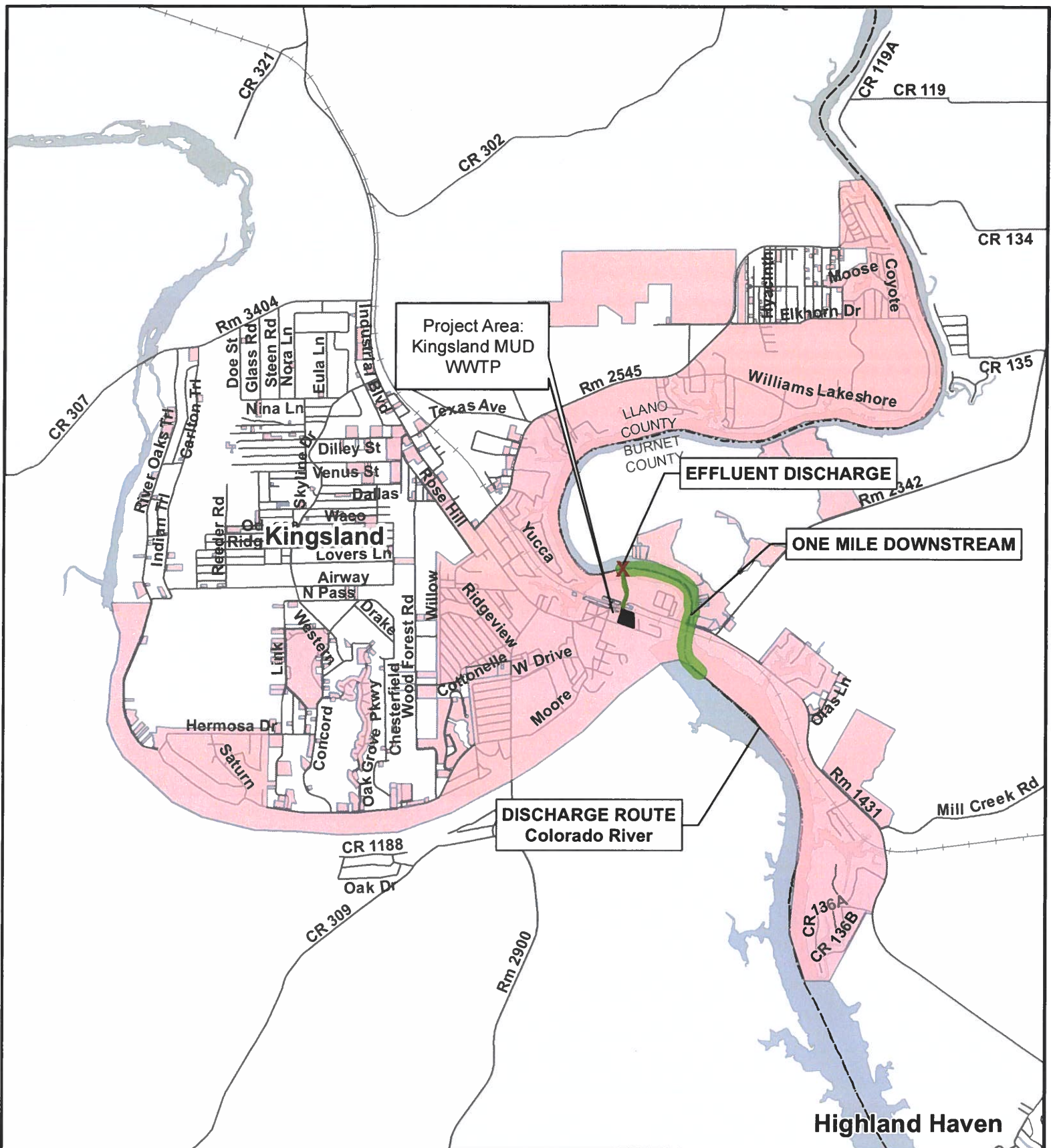
Property Boundary

WWTP Site

**KINGSLAND MUD
WWTP DISCHARGE PERMIT RENEWAL
Treatment Facility Boundary**

0 50 100 200 Feet



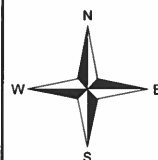


Legend:

- Project Area
- Kingsland MUD Boundary
- Major Roads
- County Border

Kingsland Municipal Utility District General Location and Service Area Map

Project Name:
Kingsland MUD
WWTP Permit Renewal
Project Number:
1005-035
Date:
August 2024



0 4,100 8,200
Feet

JONES - HEROY & ASSOCIATES, INC.

2204 South HWY 281
Suite D
Lampasas, TX 76550



Office: (512) 556-2300
Fax: (512) 556-5304
TBP Firm No. F-006320

Attachment 6
Technical Report
Section 7 and Worksheet 4.0
Lab Results



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

November 27, 2023

J. HORRY
KINGSLAND MUD
PO BOX 748
Kingsland, TX 78639
kmud-aa@nctv.com

RE: Final Analytical Report Q2348821

Attn: J. HORRY

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report. This final report provides results related only to the sample(s) as received for the above referenced work order.

Thank you for selecting ELS for your analytical needs. If you have any questions regarding this report, please contact us at (512) 730-6022 or environmental.lab@lcra.org. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Account Manager
ariana.dean@lcra.org



Enclosures:
CC:ROBERT GALLARDO

Workorder: Q2348821
Workorder Description: KINGSLAND_111520323
Client: KINGSLAND MUD
Profile: KINGSLAND MUD WEEKLY

Report To: J. HORRY
KINGSLAND MUD
PO BOX 748
Kingsland, TX 78639

Sampled By:

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
Q2348821001	EFFLUENT	AQ	E365.4 Phosphorus, Total	11/14/2023 15:00	11/15/2023 13:09	1
Q2348821001	EFFLUENT	AQ	SM2540D, TSS	11/14/2023 15:00	11/15/2023 13:09	1
Q2348821002	INFLUENT	AQ	E160.4 Ignition at 550C	11/14/2023 15:00	11/15/2023 13:09	1
Q2348821002	INFLUENT	AQ	E350.1 NH3-N by SemiAuto Col	11/14/2023 15:00	11/15/2023 13:09	1
Q2348821002	INFLUENT	AQ	E365.4 Phosphorus, Total	11/14/2023 15:00	11/15/2023 13:09	1
Q2348821002	INFLUENT	AQ	SM2540D, TSS	11/14/2023 15:00	11/15/2023 13:09	1
Q2348821003	AERATION	AQ	E160.4 Ignition at 550C	11/15/2023 10:00	11/15/2023 13:09	1
Q2348821003	AERATION	AQ	SM2540D, TSS	11/15/2023 10:00	11/15/2023 13:09	1
Q2348821004	RETURN SLUDGE	AQ	SM2540D, TSS	11/15/2023 10:00	11/15/2023 13:09	1
Q2348821005	DIGESTER	AQ	E160.4 Ignition at 550C	11/15/2023 10:00	11/15/2023 13:09	1
Q2348821005	DIGESTER	AQ	SM2540D, TSS	11/15/2023 10:00	11/15/2023 13:09	1
Q2348821006	EFFLUENT - ECOLI	AQ	SM9223B, IDEXX	11/15/2023 10:20	11/15/2023 13:09	2

Report Definitions

MRL - Minimum Reporting Limit
LOD - Limit of Detection
ML - Maximum Limit - Client Specified
MCL - Maximum Contaminant Level
LOQ - Limit of Quantitation - Client Specified
DF - Dilution Factor
(S) - Surrogate Spike
MDL - Method Detection Limit
RPD - Relative Percent Difference

Qualifier Definitions

J - Analyte detected below quantitation limit
R - RPD outside duplicate precision limit
S - Spike recovery outside limit
B - Analyte detected in method blank
N - Not Accredited
M - Analyte Detected Above Maximum Contaminant Level
SL - Spike Recovery Low
SH - Spike Recovery High
H - Analyzed Past Hold Time
CR - Confirmed Result
CH - Result confirmed by historical data



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Workorder Summary

Analytical Results

Client ID: KINGSLAND	Date Collected: 11/14/2023 15:00	Matrix: Aqueous
Lab ID: Q2348821001	Date Received: 11/15/2023 13:09	Sample Type: SAMPLE
Sample ID: EFFLUENT	Location:	
Project ID: KINGSLAND MUD WEEKLY	Facility:	
	Sample Point:	

TOTAL PHOSPHATE AS P (E365.4 Water Prep/E365.4 Phosphorus, Total)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Phosphorus, Total (As P)	0.771	mg/L	0.0200	0.00800		1	11/20/2023 08:51	SN	11/21/2023 00:00	MAB	

TOTAL SUSPENDED SOLIDS (SM2540D, TSS)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Total Suspended Solids	<1.00	mg/L	1.00	1.00		1	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Analytical Results

Client ID: KINGSLAND	Date Collected: 11/14/2023 15:00	Matrix: Aqueous
Lab ID: Q2348821002	Date Received: 11/15/2023 13:09	Sample Type: SAMPLE
Sample ID: INFLUENT	Location:	
Project ID: KINGSLAND MUD WEEKLY	Facility:	
	Sample Point:	

AMMONIA AS N (E350.1 NH3-N by SemiAuto Col)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Nitrogen, Ammonia (as N)	50.8	mg/L	1.00	0.400		50	11/22/2023 12:36	JLL	11/22/2023 12:36	JLL	

TOTAL PHOSPHATE AS P (E365.4 Water Prep/E365.4 Phosphorus, Total)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Phosphorus, Total (As P)	7.46	mg/L	0.0800	0.0320		1	11/20/2023 08:51	SN	11/21/2023 00:00	MAB	

TOTAL SUSPENDED SOLIDS (SM2540D, TSS)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Total Suspended Solids	196	mg/L	18.2	18.2		18.18	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Volatile Suspended Solids (E160.4 Ignition at 550C)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Volatile Suspended Solids	182	mg/L	18.2	18.2		18.18	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Analytical Results

Client ID: KINGSLAND	Date Collected: 11/15/2023 10:00	Matrix: Aqueous
Lab ID: Q2348821003	Date Received: 11/15/2023 13:09	Sample Type: SAMPLE
Sample ID: AERATION	Location:	
Project ID: KINGSLAND MUD WEEKLY	Facility:	
	Sample Point:	

TOTAL SUSPENDED SOLIDS (SM2540D, TSS)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Total Suspended Solids	10600	mg/L	2000	2000		2000	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Volatile Suspended Solids (E160.4 Ignition at 550C)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Volatile Suspended Solids	8600	mg/L	2000	2000		2000	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Analytical Results

Client ID:	KINGSLAND	Date Collected:	11/15/2023 10:00	Matrix:	Aqueous
Lab ID:	Q2348821004	Date Received:	11/15/2023 13:09	Sample Type:	SAMPLE
Sample ID:	RETURN SLUDGE	Location:			
Project ID:	KINGSLAND MUD WEEKLY	Facility:			
		Sample Point:			

TOTAL SUSPENDED SOLIDS (SM2540D, TSS)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Total Suspended Solids	4700	mg/L	1000	1000		1000	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Analytical Results

Client ID: KINGSLAND	Date Collected: 11/15/2023 10:00	Matrix: Aqueous
Lab ID: Q2348821005	Date Received: 11/15/2023 13:09	Sample Type: SAMPLE
Sample ID: DIGESTER	Location:	
Project ID: KINGSLAND MUD WEEKLY	Facility:	
	Sample Point:	

TOTAL SUSPENDED SOLIDS (SM2540D, TSS)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Total Suspended Solids	26400	mg/L	2000	2000		2000	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Volatile Suspended Solids (E160.4 Ignition at 550C)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Volatile Suspended Solids	19200	mg/L	2000	2000		2000	11/16/2023 15:48	MAB	11/16/2023 15:48	MAB	

Analytical Results

Client ID: KINGSLAND	Date Collected: 11/15/2023 10:20	Matrix: Aqueous
Lab ID: Q2348821006	Date Received: 11/15/2023 13:09	Sample Type: SAMPLE
Sample ID: EFFLUENT - ECOLI	Location:	
Project ID: KINGSLAND MUD WEEKLY	Facility:	
	Sample Point:	

E. COLI (SM9223B, IDEXX)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
Ecoli	<2.00	MPN/100mL	2.00	2.00		2	11/15/2023 15:30	SN	11/15/2023 15:30	SN	
Ecoli Holding Time	5.2	HOURS	0.0	0.0			11/15/2023 15:30	SN	11/15/2023 15:30	SN	N

Quality Control Results

QC Batch: MIC/7548
Preparation Method: SM9223B, IDEXX
Associated Lab IDs: Q2348821006

Analysis Method: SM9223B, IDEXX

Duplicate (1998502); Original Q2348821006

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Ecoli	MPN/100mL	0.	0.0			

Quality Control Results

QC Batch: WET/29718

Analysis Method: SM2540D, TSS

Preparation Method: SM2540D, TSS

Associated Lab IDs: Q2348821001, Q2348821002, Q2348821003, Q2348821004, Q2348821005

Lab Control Sample (1999187); Lab Control Sample Duplicate (1999188)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Total Suspended Solids	mg/L	100.0	86.0	86.0	80 - 120	88.0	88.0	2.3	20	

Method Blank(1999186)

Parameter	Units	Results	MRL	LOD	Qualifier
Total Suspended Solids	mg/L	<1.00	1.0	1.0	

Duplicate (1999189); Original Q2348821003

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Total Suspended Solids	mg/L	10600.	10000.0	5.83	20	

Quality Control Results

QC Batch: WET/29719
Preparation Method: E160.4 Ignition at 550C
Associated Lab IDs: Q2348821002, Q2348821003, Q2348821005

Analysis Method: E160.4 Ignition at 550C

Method Blank(1999473)

Parameter	Units	Results	MRL	LOD	Qualifier
Volatile Suspended Solids	mg/L	<1.00	1.0	1.0	

Duplicate (1999474); Original Q2348821003

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Volatile Suspended Solids	mg/L	8600.	7800.0	9.76	20	

Quality Control Results

QC Batch: WET/29740
Preparation Method: E365.4 Water Prep
Associated Lab IDs: Q2348821001, Q2348821002

Analysis Method: E365.4 Phosphorus, Total

Lab Control Sample (2000173); Lab Control Sample Duplicate (2000174)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Phosphorus, Total (As P)	mg/L	1.0	0.924	92.4	90 - 110	0.925	92.5	0.108	20	

Method Blank(2000175)

Parameter	Units	Results	MRL	LOD	Qualifier
Phosphorus, Total (As P)	mg/L	<0.0200	0.02	0.008	
Phosphorus, Total (As P)	mg/L	<0.0200	0.02	0.008	

Limit of Quantitation Check (2000171)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Phosphorus, Total (As P)	mg/L	0.02	0.0238	119.0	70 - 130	

Matrix Spike (2000172); Original: Q2348315001

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Phosphorus, Total (As P)	mg/L	1.0	0.934	93.4	80 - 120	

Quality Control Results

QC Batch: WET/29758
Preparation Method: E350.1 NH3-N by SemiAuto Col
Associated Lab IDs: Q2348821002

Analysis Method: E350.1 NH3-N by SemiAuto Col

Limit of Quantitation Check (2001444)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Nitrogen, Ammonia (as N)	mg/L	0.02	0.0198	99.1	70 - 130	

Laboratory Reagent Blank(2001447)

Parameter	Units	Results	MRL	LOD	Qualifier
Nitrogen, Ammonia (as N)	mg/L	<0.0200	0.02	0.008	

Laboratory Fortified Blank (2001445); Lab Fortified Blank Duplicate (2001446)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Nitrogen, Ammonia (as N)	mg/L	1.0	0.982	98.2	90 - 110	0.955	95.5	2.79	20	

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
MIC/7548 - SM9223B, IDEXX			
Q2348821006	EFFLUENT - ECOLI		
WET/29718 - SM2540D, TSS			
Q2348821001	EFFLUENT		
Q2348821002	INFLUENT		
Q2348821003	AERATION		
Q2348821004	RETURN SLUDGE		
Q2348821005	DIGESTER		
WET/29719 - E160.4 Ignition at 550C			
Q2348821002	INFLUENT		
Q2348821003	AERATION		
Q2348821005	DIGESTER		
WET/29740 - E365.4 Phosphorus, Total			
Q2348821001	EFFLUENT	WETP/6892	E365.4 Water Prep
Q2348821002	INFLUENT	WETP/6892	E365.4 Water Prep
WET/29758 - E350.1 NH3-N by SemiAuto Col			
Q2348821002	INFLUENT		



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**LCRA Environmental Laboratory Services
Request for Analysis Chain-of-Custody Record**

Project:	KINGSLAND MUD ROUTINE- WED	Client:	KINGSLAND MUD	Report To:	ROBERT GALLARDO KINGSLAND MUD 100 Ingram Street Kingsland, TX 78639	Lab ID#:	02348821
Collector:		Contact:				Client PO:	
Event#:		Phone:				Invoice To:	ANITA LABIER KINGSLAND MUD 100 Ingram Street Kingsland, TX 78639

LAB USE ONLY	Sample ID *	Collected *		Matrix*	Container(s) Type/Preservative/Number *										Requested Analysis *									
		Date*	Time * HH:MM		COMPOSITE Y/N	FILTERED Y/N	1LPU	125STERL	250PHSO4						2540-AMTSS	160.4AM - VSS	365.4AM - TP	9223-A - E. coli	5210-AMBOD	350.1AM- Ammonia				
1	EFFLUENT	11-14-23	3:00pm	AQ			2		1						X	X		X						
2	INFLUENT	11-14-23	3:00pm	AQ			2		1						X	X	X		X	X				
3	AERATION	11-15-23	10:00 AM	AQ			1								X	X								
4	RETURN SLUDGE	11-15-23	10:00 AM	AQ			1								X									
5	DIGESTER	11-15-23	10:00 AM	AQ			1								X	X								
6	EFFLUENT-E.coli	11-15-23	10:20 AM	AQ				1										X						
7																								

Transfers	Relinquished By	Date/Time	Received By	Date/Time	Cooler Temp			
1	Robert Gallardo	11-15-23 10:30 AM	Robert Gallardo	11-15-23 10:57	#	T#	Obs.	Corr.
2	Robert Gallardo	11-15-23 1:30 PM	Robert Gallardo	11-15-23 1:30 PM	1	11	1-8	0.1
3					2			

Note: Relinquishing sample(s) and signing the COC, client agrees to accept and is bound by the ELS Standard Terms and Conditions. All fields with an asterisk (*) are required to be completed.


02348821
618016

Lab Use Only:

End of Report



Worksheet 4.0

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

July 02, 2024

J. HORRY
KINGSLAND MUD
PO BOX 748
Kingsland, TX 78639
jhorry@kingslandmud.com

RE: Final Analytical Report Q2423291

Attn: J. HORRY

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report. This final report provides results related only to the sample(s) as received for the above referenced work order.

Thank you for selecting ELS for your analytical needs. If you have any questions regarding this report, please contact us at (512) 730-6022 or environmental.lab@lcra.org. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Account Manager
ariana.dean@lcra.org



Enclosures
CC ROBERT GALLARDO



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Workorder: Q2423291
Workorder Description: KINGSLANDPERSUB_06042024
Client: KINGSLAND MUD
Profile: POLLUTANT ANALYSIS-PERMIT

Report To: J. HORRY
KINGSLAND MUD
PO BOX 748
Kingsland, TX 78639

Sampled By:

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
Q2423291001	EFFLUENT	AQ	Calculated Trivalent Chromium	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291001	EFFLUENT	AQ	E1631 Low Level Mercury	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291001	EFFLUENT	AQ	E200.8, ICP-MS	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291001	EFFLUENT	AQ	E420.1 Phenolics, Spectrophoto	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291001	EFFLUENT	AQ	SM3500-Cr D, Hexavalent Cr	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291001	EFFLUENT	AQ	SM4500-CN-G, Amenable Cyanide	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291002	EFFLUENT FB Hg	AQ	E1631 Low Level Mercury	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291003	EFFLUENT	AQ	ASTM D7065-06 Nonylphenol	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291003	EFFLUENT	AQ	E1657, Pesticides	06/03/2024 10:30	06/03/2024 13:26	7
Q2423291003	EFFLUENT	AQ	E604 1, Hexachlorophene	06/03/2024 10:30	06/03/2024 13:26	1
Q2423291003	EFFLUENT	AQ	E608 3 Organochlorines, PCBs	06/03/2024 10:30	06/03/2024 13:26	26
Q2423291003	EFFLUENT	AQ	E615 Herbicides	06/03/2024 10:30	06/03/2024 13:26	2
Q2423291003	EFFLUENT	AQ	E617	06/03/2024 10:30	06/03/2024 13:26	3
Q2423291003	EFFLUENT	AQ	E624 1 Purgeables	06/03/2024 10:30	06/03/2024 13:26	38
Q2423291003	EFFLUENT	AQ	E625 1 Base/Neutrals and Acids	06/03/2024 10:30	06/03/2024 13:26	66
Q2423291003	EFFLUENT	AQ	E632, Carbaryl, Diuron	06/03/2024 10:30	06/03/2024 13:26	2

Report Definitions

MRL - Minimum Reporting Limit
LOD - Limit of Detection
ML - Maximum Limit - Client Specified
MCL - Maximum Contaminant Level
LOQ - Limit of Quantitation - Client Specified
DF - Dilution Factor
(S) - Surrogate Spike
MDL - Method Detection Limit
RPD - Relative Percent Difference

Qualifier Definitions



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J - Analyte detected below quantitation limit
R - RPD outside duplicate precision limit
S - Spike recovery outside limit
B - Analyte detected in method blank
N - Not Accredited
M - Analyte Detected Above Maximum Contaminant Level
SL - Spike Recovery Low
SH - Spike Recovery High
H - Analyzed Past Hold Time
CR - Confirmed Result
CH - Result confirmed by historical data

Workorder Summary

Sample Comments

Q2423291001 (EFFLUENT) - Paying sample

ANALYTICAL COMMENTS: Q2423291001 (E1631 Low Level Mercury) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291001 (E420.1 Phenolics, Spectrophoto) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291001 (SM3500-Cr D, Hexavalent Cr) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291001 (SM4500-CN-G, Amenable Cyanide) subcontracted with customer's approval. Data provided in full with the ELS final report.

Q2423291002 (EFFLUENT-FB Hg) - Paying sample

ANALYTICAL COMMENTS: Q2423291002 (E1631 Low Level Mercury) subcontracted with customer's approval. Data provided in full with the ELS final report.

Q2423291003 (EFFLUENT) - Paying sample

ANALYTICAL COMMENTS: Q2423291003 (ASTM D7065-06 Nonylphenol) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E1657, Pesticides) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E604.1, Hexachlorophene) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E608.3 Organochlorines, PCBs) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E615 Herbicides) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E617) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E624.1 Purgeables) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E625.1 Base/Neutrals and Acids) subcontracted with customer's approval. Data provided in full with the ELS final report.

ANALYTICAL COMMENTS: Q2423291003 (E632, Carbaryl, Diuron) subcontracted with customer's approval. Data provided in full with the ELS final report.



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Analytical Results

Client ID: KINGSLAND	Date Collected: 06/03/2024 10:30	Matrix: Aqueous
Lab ID: Q2423291001	Date Received: 06/03/2024 13:26	Sample Type: SAMPLE
Sample ID: EFFLUENT	Location:	
Project ID: POLLUTANT ANALYSIS-PERMIT	Facility:	
	Sample Point:	

Calculated Trivalent Chromium has been subcontracted. See attached Subcontract Report.
E1631 Low Level Mercury has been subcontracted. See attached Subcontract Report.
E200.8, ICP-MS has been subcontracted. See attached Subcontract Report.
E420.1 Phenolics, Spectrophoto has been subcontracted. See attached Subcontract Report.
SM3500-Cr D, Hexavalent Cr. has been subcontracted. See attached Subcontract Report.
SM4500-CN-G, Amenable Cyanide has been subcontracted. See attached Subcontract Report.



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Analytical Results

Client ID: KINGSLAND	Date Collected: 06/03/2024 10:30	Matrix: Aqueous
Lab ID: Q2423291002	Date Received: 06/03/2024 13:26	Sample Type: SAMPLE
Sample ID: EFFLUENT FB Hg	Location:	
Project ID: POLLUTANT ANALYSIS-PERMIT	Facility:	
	Sample Point:	

E1631 Low Level Mercury has been subcontracted. See attached Subcontract Report.

Analytical Results

Client ID: KINGSLAND	Date Collected: 06/03/2024 10:30	Matrix: Aqueous
Lab ID: Q2423291003	Date Received: 06/03/2024 13:26	Sample Type: SAMPLE
Sample ID: EFFLUENT	Location:	
Project ID: POLLUTANT ANALYSIS-PERMIT	Facility:	
	Sample Point:	

Herbicides (E615 Herbicides)

Parameter	Results	Units	MRL	LOD	ML	DF	Prepared	By	Analyzed	By	Qualifier
2,4-D	<0.0900	ug/L	0.0900	0.0700		1	06/07/2024 20:11	SUB	06/07/2024 20:11	SUB	
2,4,5-TP	<0.100	ug/L	0.100	0.0900		1	06/07/2024 20:11	SUB	06/07/2024 20:11	SUB	

ASTM D7065-06 Nonylphenol has been subcontracted. See attached Subcontract Report.

E1657, Pesticides has been subcontracted. See attached Subcontract Report.

E604.1, Hexachlorophene has been subcontracted. See attached Subcontract Report.

E608.3 Organochlorines, PCBs has been subcontracted. See attached Subcontract Report.

E617 has been subcontracted. See attached Subcontract Report.

E624.1 Purgeables has been subcontracted. See attached Subcontract Report.

E625.1 Base/Neutrals and Acids has been subcontracted. See attached Subcontract Report.

E632, Carbaryl, Diuron has been subcontracted. See attached Subcontract Report.

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Project
1105681

LCRA-C

LCRA Environmental Laboratory
Ariana Dean
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1105681_r10_05_ProjectQC	SPL Kilgore Project P:1105681 C:LCRA Project Quality Control Groups	13
1105681_r99_09_CoC_1_of_1	SPL Kilgore CoC LCRA 1105681_1_of_1	7
Total Pages:		30

Email: Kilgore ProjectManagement@spllabs.com



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1

SAMPLE CROSS REFERENCE

Project

1105681

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78744

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www

Sample	Sample ID	Taken	Time	Received
2304639	Q2423291001	06/03/2024	10:30:00	06/05/2024

Bottle 01 Client supplied H2SO4 Amber Glass

Bottle 02 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1122304) Volume: 6.00000 mL <== Derived from 01 (6 mL)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 420.4 1	02	1122304	06/05/2024	1122974	06/09/2024

Sample	Sample ID	Taken	Time	Received
2304640	Q2423291003	06/03/2024	10:30:00	06/05/2024

Bottle 01 Client Supplied Amber Glass

Bottle 02 Client Supplied Amber Glass

Bottle 03 Client Supplied Amber Glass

Bottle 04 Client Supplied Amber Glass

Bottle 05 Client Supplied Amber Glass

Bottle 06 Client Supplied Amber Glass

Bottle 07 Client Supplied Amber Glass

Bottle 08 Client Supplied Amber Glass

Bottle 09 Client Supplied Amber Glass

Bottle 10 Client Supplied Amber Glass

Bottle 11 Client Supplied Amber Glass

Bottle 12 Client Supplied Amber Glass

Bottle 13 Client supplied H2SO4 Amber Glass

Bottle 14 Client supplied H2SO4 Amber Glass

Bottle 15 Prepared Bottle: 2 mL Autosampler Vial (Batch 1122598) Volume: 1.00000 mL <== Derived from 03 (933 mL)

Bottle 16 Prepared Bottle: GCXL GCXS 2 mL Autosampler Vial (Batch 1122600) Volume: 1.00000 mL <== Derived from 01 (954 mL)

Bottle 17 Prepared Bottle: GCXL GCXS 2 mL Autosampler Vial (Batch 1122601) Volume: 1.00000 mL <== Derived from 01 (954 mL)

Bottle 18 Prepared Bottle: OPNL OPNS 2 mL Autosampler Vial (Batch 1122602) Volume: 1.00000 mL <== Derived from 01 (954 mL)

Bottle 19 Prepared Bottle: PCBL 2 mL Autosampler Vial (Batch 1122603) Volume: 1.00000 mL <== Derived from 01 (954 mL)

Bottle 20 Prepared Bottle: 2 mL Autosampler Vial (Batch 1122612) Volume: 5.00000 mL <== Derived from 02 (947 mL)

Bottle 21 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124341) Volume: 1.00000 mL <== Derived from 13 (1008 mL)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	17	1122601	06/06/2024	1123727	06/12/2024
EPA 608.3	19	1122603	06/06/2024	1123853	06/12/2024
EPA 632	16	1122600	06/06/2024	1125345	06/18/2024
EPA 604.1	20	1122612	06/06/2024	1123284	06/10/2024
EPA 1657	18	1122602	06/06/2024	1124068	06/12/2024
EPA 617	17	1122601	06/06/2024	1123723	06/12/2024
EPA 625.1	15	1122598	06/06/2024	1124513	06/17/2024

Email: Kilgore.ProjectManagement@spllabs.com

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www

Central TX Region: 8501 Cameron Rd. Ste 305 Austin TX 78754

Project: 1105681-Phenol/Chloride/Ammonia/As

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24 Waterway Avenue, Suite 175 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914



1

SAMPLE CROSS REFERENCE

Project

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LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr
Austin, TX 78744

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7/1/2024

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www

Sample	Sample ID	Taken	Time	Received
2304640	Q2421291001	06/03/2024	10:30:00	06/05/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Client Supplied Amber Glass
Bottle 06 Client Supplied Amber Glass
Bottle 07 Client Supplied Amber Glass
Bottle 08 Client Supplied Amber Glass
Bottle 09 Client Supplied Amber Glass
Bottle 10 Client Supplied Amber Glass
Bottle 11 Client Supplied Amber Glass
Bottle 12 Client Supplied Amber Glass
Bottle 13 Client supplied H2SO4 Amber Glass
Bottle 14 Client supplied H2SO4 Amber Glass
Bottle 15 Prepared Bottle: 2 mL Autosampler Vial (Batch 1122598) Volume: 1.00000 mL <== Derived from 01 (933 mL)
Bottle 16 Prepared Bottle: 6321:632S 2 mL Autosampler Vial (Batch 1122600) Volume: 1.00000 mL <== Derived from 01 (954 mL)
Bottle 17 Prepared Bottle: GCX1 GCXS 2 mL Autosampler Vial (Batch 1122601) Volume: 1.00000 mL <== Derived from 01 (954 mL)
Bottle 18 Prepared Bottle: OPX1:OPXS 2 mL Autosampler Vial (Batch 1122602) Volume: 1.00000 mL <== Derived from 01 (954 mL)
Bottle 19 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1122603) Volume: 1.00000 mL <== Derived from 01 (954 mL)
Bottle 20 Prepared Bottle: 2 mL Autosampler Vial (Batch 1122612) Volume: 5.00000 mL <== Derived from 02 (947 mL)
Bottle 21 Prepared Bottle: 2 mL Autosampler Vial (Batch 1124341) Volume: 1.00000 mL <== Derived from 13 (1008 mL)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
ASTM D7065-11	21	1124341	06/17/2024	1124948	06/19/2024

Email: Kilgore.ProjectManagement@spllabs.com

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11/1/2024

Central TX Region, 8501 Cameron Rd., Ste 105 Austin TX 78754

Running Report Project 1105681 Date 7/1/2024

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1
2

LCRA-C

LCRA Environmental Laboratory
Ariana Dean
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Project

1105681

Printed 07/01/2024

RESULTS

Sample Results

2304639 Q2423291001		Received 06/08/2024	
Non-Potable Water	Collection by Client	LCRA Environmental L.	PO# 146473 (Began 9/26/2023)
	Date 06/03/2024	(630)00	
EPA 420.4-1		Prepared 11/22/24 06/06/2024	08 Secord
		Analyzed 11/22/24 06/09/2024	08/31/00 AMB
Parameter	Results	Units	RI
Phenolics, Total Recoverable	0.011	mg/L	0.005
			Flags
			CAS
			Boyle
			02
2304640 Q2423291003		Received 06/05/2024	
Non-Potable Water	Collection by Client	LCRA Environmental L.	PO# 146473 (Began 9/26/2023)
	Date 06/03/2024	(630)00	
ASTM D7065-11		Prepared 11/24/24 06/17/2024	14/40/00
		Analyzed 11/22/24 06/19/2024	15/38/00 DSI
Parameter	Results	Units	RI
Nonylphenol	<29.8	ug/L	29.8
			Flags
			SD
			25154-52-3
			21
EPA 1657		Prepared 11/22/24 06/06/2024	14/40/00
		Analyzed 11/22/24 06/12/2024	14/30/00 A.M.P.
Parameter	Results	Units	RI
Azinphos-methyl (Guthion)	<0.0524	ug/L	0.0524
			Flags
			CAS
			Boyle
			18
Chlorpyrifos	<0.050	ug/L	0.050
			Flags
			CAS
			Boyle
			18
Demeton	<0.0524	ug/L	0.0524
			Flags
			CAS
			Boyle
			18
Diazinon	<0.050	ug/L	0.050
			Flags
			CAS
			Boyle
			18
Malathion	<0.0524	ug/L	0.0524
			Flags
			CAS
			Boyle
			18
Permethrin, ethyl	<0.0524	ug/L	0.0524
			Flags
			CAS
			Boyle
			18
Permethrin, methyl	<0.050	ug/L	0.050
			Flags
			CAS
			Boyle
			18
EPA 604.1		Prepared 11/22/24 06/06/2024	14/40/00
		Analyzed 11/22/24 06/10/2024	21/33/00 DSI
Parameter	Results	Units	RI
Hexachlorophene	<2.64	ug/L	2.64
			Flags
			CAS
			Boyle
			20



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4/26/23

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LCRA-C

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Project

1105681

Printed 07/01/2024

2304640 Q2423291003

Received 06/05/2024

Non Potable Water

LCRA Environmental Laboratory
Client
06/03/2024

LCRA Environmental Laboratory
10/30/20

146473 (Hogan 9/26/2023)

EPA 608.1		Prepared	11/22/01	06/06/2024	14/10/00	Analyst	11/23/22	06/12/2024	20/18/00	AAP
Parameter	Results	Units	RI	Flags	Units	Results	Units	Results	Units	Results
4,4-DDD	<0.0105	ug/L	0.0105			72-54-8		17		
4,4-DDE	<0.0105	ug/L	0.0105			72-55-9		17		
4,4-DDT	<0.0105	ug/L	0.0105			50-29-3		17		
Aldrin	<0.010	ug/L	0.010			309-00-2		17		
Alpha-BHC(hexachlorocyclohexane)	<0.0105	ug/L	0.0105			319-84-6		17		
Beta-BHC(hexachlorocyclohexane)	0.00929	ug/L	0.0105			319-85-7		17		
Chlordane	<0.200	ug/L	0.200			57-74-9		17		
Delta-BHC(hexachlorocyclohexane)	<0.0105	ug/L	0.0105			319-86-8		17		
Dieldrin	<0.0105	ug/L	0.0105			60-57-1		17		
Endosulfan I (alpha)	<0.010	ug/L	0.010			959-98-8		17		
Endosulfan II (beta)	<0.0105	ug/L	0.0105			33213-65-9		17		
Endosulfan sulfate	<0.0105	ug/L	0.0105			1031-07-8		17		
Endrin	<0.0105	ug/L	0.0105			72-20-8		17		
Endrin aldehyde	<0.0105	ug/L	0.0105			7421-93-4		17		
Gamma-BHC(Lindane)	<0.0105	ug/L	0.0105			58-89-9		17		
Heptachlor	0.00474	ug/L	0.0105			76-44-8		17		
Heptachlor epoxide	<0.010	ug/L	0.010			1024-57-3		17		
Toxaphene	<0.210	ug/L	0.210			8001-35-2		17		

EPA 608.1		Prepared	11/22/01	06/06/2024	14/10/00	Analyst	11/23/22	06/12/2024	20/18/00	AAP
Parameter	Results	Units	RI	Flags	Units	Results	Units	Results	Units	Results
PCB-1016	<0.200	ug/L	0.200			12674-11-2		19		
PCB-1221	<0.200	ug/L	0.200			11104-28-2		19		
PCB-1232	<0.200	ug/L	0.200			11141-16-5		19		
PCB-1242	<0.200	ug/L	0.200			53469-21-9		19		
PCB-1248	<0.200	ug/L	0.200			12672-29-6		19		
PCB-1254	<0.200	ug/L	0.200			11097-69-1		19		
PCB-1260	<0.200	ug/L	0.200			11096-82-5		19		
PCB-1262	<0.210	ug/L	0.210			37324-23-5		19		
PCB-1268	<0.210	ug/L	0.210			11100-14-4		19		

EPA 601		Prepared	11/22/01	06/06/2024	14/10/00	Analyst	11/23/22	06/12/2024	20/18/00	AAP
Parameter	Results	Units	RI	Flags	Units	Results	Units	Results	Units	Results
Ketthane (Dicofol)	<0.0524	ug/L	0.0524			115-32-2		17		



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Central TX Region 8101 Cameron Rd - Ste 105 Austin TX 78754

Form 601 (Rev. 5/2013) Created: 11/22/01

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LCRA-C

Page 3 of 8

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78744

Project
1105681

Printed 07/01/2024

2304640 Q2423291003

Received 06/05/2024

Non Potable Water

Customer Client
Date 06/03/2024

LCRA Environmental L
1105681

City 146473 (Began 9/26/2023)

EPA 617		Proposed	11/22/2023	06/06/2024	12/10/2024	Analysis	11/23/23	06/12/2024	20/05/2024	8/10/24
Parameter	Results	Units	RI	Flags	CA#	Batch				
Methoxychlor	<0.0105	ug/L	0.0105		72-43-5	17				
Mirex	<0.0105	ug/L	0.0105		2385-85-5	17				

EPA 821.1	Proposed	11/22/2023	06/06/2024	12/10/2024	Analysis	11/23/23	06/12/2024	20/05/2024	8/10/24
Parameter	Results	Units	RI	Flags	CA#	Batch			
1,2,4,5-Tetrachlorobenzene	<1.10	ug/L	1.10	N	95-94-3	15			
1,2,4-Trichlorobenzene	<1.07	ug/L	1.07		120-82-1	15			
1,2-Dichlorobenzene	<5.36	ug/L	5.36	N	95-50-1	15			
1,2-DPH (as exobenzene)	<1.07	ug/L	1.07		122-66-7	15			
1,3-Dichlorobenzene	<5.36	ug/L	5.36	N	541-73-1	15			
1,4-Dichlorobenzene	<5.36	ug/L	5.36	N	106-46-7	15			
2,4,5-Trichlorophenol	<5.36	ug/L	5.36		95-93-4	15			
2,4,6-Trichlorophenol	<2.14	ug/L	2.14		88-06-2	15			
2,4-Dichlorophenol	<1.07	ug/L	1.07		120-83-2	15			
2,4-Dimethylphenol	<1.07	ug/L	1.07		105-67-9	15			
2,4-Dinitrophenol	<2.14	ug/L	2.14		51-28-5	15			
2,4-Dinitrotoluene	<2.14	ug/L	2.14		121-14-2	15			
2,6-Dinitrotoluene	<2.14	ug/L	2.14		606-20-2	15			
2-Chloronaphthalene	<1.07	ug/L	1.07		91-58-7	15			
2-Chlorophenol	<1.07	ug/L	1.07		95-57-8	15			
2-Methylphenol (o-Cresol)	<10.0	ug/L	10.0	N	95-48-7	15			
2-Nitrophenol	<1.07	ug/L	1.07		88-75-5	15			
3&4-Methylphenol (m&p-Cresol)	<8.57	ug/L	8.57	N	MEPH34	15			
3,3'-Dichlorobenzidine	<2.14	ug/L	2.14		91-94-1	15			
4,6-Dinitro-2-methylphenol	<2.14	ug/L	2.14		534-52-1	15			
4-Bromophenyl phenyl ether	<1.07	ug/L	1.07		101-55-3	15			
4-Chlorophenyl phenyl ether	<1.07	ug/L	1.07		7005-72-3	15			
4-Nitrophenol	<1.07	ug/L	1.07		100-02-7	15			
Acenaphthene	<1.07	ug/L	1.07		83-32-9	15			
Acenaphthylene	<1.07	ug/L	1.07		208-96-8	15			
Anthracene	<1.07	ug/L	1.07		120-12-7	15			
Benidine	<1.61	ug/L	1.61		92-87-5	15			
Benzo(a)anthracene	<1.07	ug/L	1.07		56-55-3	15			
Benzo(a)pyrene	<1.07	ug/L	1.07		50-32-8	15			
Benzo(b)fluoranthene	<1.07	ug/L	1.07		205-99-2	15			



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2/4/24

Central TX Region 8505 Cameron Rd. Ste 305 Austin TX 78754

Sample# Q2423291003, Sample# 2304640

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LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78744

Project
1105681

Printed 07/01/2024

2304640 Q2423291003

Received 06/05/2024

Non-Potable Water

Collection Client
7/1/24 06/03/2024

LCRA Environmental L
06/03/2024

146473 (Began 9/26/2023)

EPA 625.1

Prepared 06/19/2024 12:00:00 Analysis 06/27/2024 23:00:00 PM

Parameter	Results	Units	RI	Units	Units	RI
Benzo(g,h,i)perylene	<1.07	ug/L	1.07		191-24-2	15
Benzo(k)fluoranthene	<1.07	ug/L	1.07		207-08-9	15
Benzyl Butyl phthalate	0.311	ug/L	8.04	J	85-68-7	15
Bis(2-chloroethoxy)methane	<1.07	ug/L	1.07		111-91-1	15
Bis(2-chloroethoxy)ether	<1.07	ug/L	1.07		111-44-4	15
Bis(2-chloroisopropyl)ether	<1.07	ug/L	1.07		108-60-1	15
Bis(2-ethylhexyl)phthalate	<8.04	ug/L	8.04		117-81-7	15
Chrysene (Benzo(a,b)phenanthrene)	<1.07	ug/L	1.07		218-01-9	15
Dibenz(a,h)anthracene	<1.07	ug/L	1.07		53-70-3	15
Diethyl phthalate	<6.11	ug/L	6.11		84-66-2	15
Dimethyl phthalate	<5.14	ug/L	5.14		131-11-3	15
Di-n-butylphthalate	<8.04	ug/L	8.04		84-74-2	15
Di-n-octylphthalate	<2.14	ug/L	2.14		117-84-0	15
Fluoranthene (Benzo(j,k)fluorene)	<1.07	ug/L	1.07		206-44-0	15
Fluorene	<1.07	ug/L	1.07		86-73-7	15
Hexachlorobenzene	<1.07	ug/L	1.07		118-74-1	15
Hexachlorobutadiene	<1.10	ug/L	1.10		87-68-3	15
Hexachlorocyclopentadiene	<1.07	ug/L	1.07		77-47-4	15
Hexachloroethane	<2.14	ug/L	2.14		67-72-1	15
Indeno(1,2,3-cd)pyrene	<1.07	ug/L	1.07		193-39-5	15
Isophorene	<1.07	ug/L	1.07		78-59-1	15
Naphthalene	<1.07	ug/L	1.07		91-20-3	15
Nitrobenzene	<1.07	ug/L	1.07		98-95-3	15
o-Nitrosodimethylamine	<1.07	ug/L	1.07	N	55-18-5	15
N-Nitrosodimethylamine	<1.07	ug/L	1.07		62-75-9	15
o-Nitroso-di-n-butylamine	<1.07	ug/L	1.07	N	924-16-3	15
N-Nitrosodi-n-propylamine	<1.07	ug/L	1.07		621-64-7	15
N-Nitrosodiphenylamine (as DPA)	<1.07	ug/L	1.07		86-30-6	15
p-Chloro-m-Cresol (4-Chloro-3-mc)	<1.07	ug/L	1.07		59-50-7	15
Pentachlorobenzene	<1.07	ug/L	1.07		608-93-5	15
Pentachlorophenol	<5.00	ug/L	5.00		87-86-5	15
Phenanthrene	<1.07	ug/L	1.07		85-01-8	15
Phenol	<1.07	ug/L	1.07		108-95-2	15
Pyrene	<1.07	ug/L	1.07		129-00-0	15
Pyridine	<1.45	ug/L	1.45		110-86-1	15



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06/03/24

Central TX Region 8505 Cameron Rd. Ste 305 Austin TX 78754

Form: rptPOLRESN Created: 12/26/2013

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LCRA-C

LCRA Environmental Laboratory
Ariana Dean
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Austin, TX 78744

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Project

1105681

Printed 06/01/2024

2304640 Q2423291003		Received 06/05/2024	
Non Potable Water	Collected by Client	LCRA Environmental L	06/05/2024
	Taken 06/03/2024	10/30/00	146473 (Began 9/26/2023)
EPA 625.1			
Parameters	Results	Units	RI
Cresols Total	<3.57	ng/L	8.57
			1319-77-3, etc.
			15
EPA 632			
Parameters	Results	Units	RI
Carbaryl (Scvm)	<2.62	ng/L	2.62
Diuron	<0.0472	ng/L	0.0472
			63-25-2
			330-54-1
			16

Sample Preparation

2304639 Q2423291001		Received 06/05/2024	
	06/03/2024	146473	(Began 9/26/2023)
EPA 420.4			
Parameters	Results	Units	RI
Phenol Distillation	66	ml	91
Environmental Fee (per Project)			
	Verified		
EPA 420.4			
Parameters	Results	Units	RI
Phenol Distillation	66	ml	91

2304640 Q2423291003		Received 06/05/2024	
	06/03/2024	146473	(Began 9/26/2023)
ASIMD7065-11			
Parameters	Results	Units	RI



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Central TX Region 8501 Cameron Rd - Ste 305 Austin TX 78754

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LCRA-C

LCRA Environmental Laboratory
Ariana Dean
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Austin, TX 78744

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Project

1105681

Printed: 07/01/2024

2304640 Q2423291003

Received: 06/05/2024
#146473 (Began 9/26/2023)

06/03/2024

ASTM D7065-11	Prepared: 11/24/01 06/17/2024	14.0000	Analyzed: 11/24/01 06/17/2024	13.88300	DMT
Nonyl Phenol Expansion	Entered				21
EPA 1652	Prepared: 11/22/02 06/06/2024	14.0000	Analyzed: 11/22/02 06/12/2024	14.0000	KAP
Organophos. Pesticides/1657	Entered				18
EPA 604.1	Prepared: 11/22/02 06/06/2024	14.0000	Analyzed: 11/22/02 06/06/2024	14.0000	MT
Hexachlorophene Extraction	5/947 ml				02
EPA 604.1	Prepared: 11/22/02 06/06/2024	14.0000	Analyzed: 11/22/02 06/10/2024	14.0000	MT
Hexachlorophene Expansion	Entered			70-30-4	20
EPA 608.3	Prepared: 11/22/01 06/06/2024	14.0000	Analyzed: 11/22/01 06/06/2024	14.0000	MT
Liquid-Liquid Extr. W/Hex Ex	1/954 ml				01
EPA 608.3	Prepared: 11/22/01 06/06/2024	14.0000	Analyzed: 11/22/01 06/12/2024	14.0000	KAP
TTO Pesticides	Entered				17
EPA 608.3	Prepared: 11/22/02 06/06/2024	14.0000	Analyzed: 11/22/02 06/06/2024	14.0000	MT
Solvent Extraction	1/954 ml				01
EPA 608.3	Prepared: 11/22/01 06/06/2024	14.0000	Analyzed: 11/22/01 06/06/2024	14.0000	MT
PCB Liq-Liq Extr. W/Hex Exch.	1/954 ml				01



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06/03/24

Central TX Region: 8101 Cameron Rd. Ste 305 Austin TX 78754

100000020240501 Created by: alicia.spl

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LCRA-C

LCRA Environmental Laboratory
Ariana Dean
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Project

1105681

Printed: 07/01/2024

2304640 Q2423291003

Received: 06/05/2024
146473 (Began 9/26/2023)

06/03/2024

EPA 608.1	Prepared	11/22/03	06/06/2024	14/10/00	Analyzed	11/23/03	06/12/2024	20/38/00	AAP
SE:PC Polychlorinated Biphenyls	Entered								19
EPA 617	Prepared	11/22/03	06/06/2024	14/10/00	Analyzed	11/23/03	06/12/2024	20/38/00	AAP
For use with IPPR only	Entered								17
EPA 625.1	Prepared	11/22/03	06/06/2024	14/10/00	Analyzed	11/23/03	06/16/2024	14/00/00	MUC
Liquid-Liquid Extraction, BNA	1/933	ml							03
EPA 625.1	Prepared	11/22/03	06/06/2024	14/10/00	Analyzed	11/23/03	06/17/2024	21/39/00	PAT
Table 2 & 7 Semivolatiles	Entered								15
EPA 625.1	Prepared	11/23/03	06/17/2024	14/10/00	Analyzed	11/24/03	06/17/2024	14/00/00	MUC
Nonylphenol Liq-Liq Extract	1/1008	ml							13
EPA 632	Prepared	11/22/03	06/06/2024	14/10/00	Analyzed	11/22/03	06/06/2024	14/10/00	MUC
Liquid-Liquid Extr. W/Hex Ex	1/954	ml							01
EPA 632	Prepared	11/22/03	06/06/2024	14/10/00	Analyzed	11/23/03	06/13/2024	15/44/00	HRI
SE:PC Carbaryl/Diuron	Entered								16

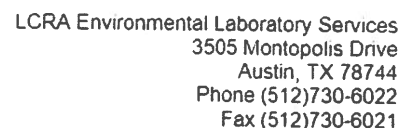


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Rev 2.3

Central TX Region, 8501 Cameron Rd - Ste 105 Austin TX 78754

Form LCRA-PPR-ENV-001-01-01-01-01



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Project

1105681

Printed: 07/01/2024

1. Wegleitung (Betreiber des Unternehmens) ist die Person, die die Wegleitung des Unternehmens führt.

Figure 10. The effect of the initial concentration of the monomer on the polymerization of **1** in the presence of **2** at 60 °C.

These analysis results state that we selected this set of 10 sets of genes which is not differentially expressed in the 10 sets of genes.

[illegible]

Bill Peery

Bill Peery, MS, VP Technical Services



Report Page 11 of 31

Central TX Region 8101 Carneiro Rd., Ste 105 Austin TX 78754

1000012821:815M / 2000012821:815M

QUALITY CONTROL



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LCRA-C

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78744

Project
1105681

Printed: 07/01/2024

Analytical Set		1122974		EPA 420.4					
Blank									
Parameter	PrepSet	Reading	MDH	MDH	Units	Limit			
Phenolics, Total Recoverable	1122304	ND	0.003	0.005	mg/L	126420194			
CCV									
Parameter	Reading	Known	Units	Recovery %	Limits %	Limit			
Phenolics, Total Recoverable	0.197	0.200	mg/L	98.5	90.0 - 110	126420193			
Phenolics, Total Recoverable	0.195	0.200	mg/L	97.5	90.0 - 110	126420201			
Phenolics, Total Recoverable	0.194	0.200	mg/L	97.0	90.0 - 110	126420210			
Phenolics, Total Recoverable	0.192	0.200	mg/L	96.0	90.0 - 110	126420221			
Phenolics, Total Recoverable	0.181	0.200	mg/L	90.5	90.0 - 110	126420230			
Duplicate									
Parameter	Sample	Result	Unknown	Units	RPD	Limit %			
Phenolics, Total Recoverable	2303770	0.015	0.020	mg/L	28.6	20.0			
ICV									
Parameter	Reading	Known	Units	Recovery %	Limits %	Limit			
Phenolics, Total Recoverable	0.213	0.200	mg/L	106	90.0 - 110	126420192			
LCS Dup									
Parameter	PrepSet	LCS	LCSD	Known	Limits %	LCS %	LCS RPD		
Phenolics, Total Recoverable	1122304	0.189	0.181	0.200	90.0 - 110	94.5	90.5		
					mg/L	4.32	20.0		
Mat. Spike									
Parameter	Sample	Spike	Unknown	Units	Recovery %	Limits %	Limit		
Phenolics, Total Recoverable	2303770	0.185	0.020	0.200	82.5	90.0 - 110	126420199		
							*		
Analytical Set		1123284		EPA 604.1					
Blank									
Parameter	PrepSet	Reading	MDH	MDH	Units	Limit			
Hexachlorophene	1122612	ND	0.890	2.50	ug/L	126430340			
CCV									
Parameter	Reading	Known	Units	Recovery %	Limits %	Limit			
Hexachlorophene	4780	5000	ug/L	95.5	70.0 - 130	126430339			
Hexachlorophene	5150	5000	ug/L	103	70.0 - 130	126430345			
Hexachlorophene	4910	5000	ug/L	98.2	70.0 - 130	126430349			
LCS Dup									
Parameter	PrepSet	LCS	LCSD	Known	Limits %	LCS %	LCS RPD		
Hexachlorophene	1122612	37.0	38.5	50.0	25.5 - 145	74.0	77.0		
					ug/L	3.97	80.0		
Analytical Set		1123723		EPA 617					
Blank									
Parameter	PrepSet	Reading	MDH	MDH	Units	Limit			
Ketohane (Dioctol)	1122601	ND	3.52	5.00	ug/L	126441690			

Email: Kilgore.ProjectManagement@spllabs.com



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07/01/2024

Central TX Region: 8105 Cameron Rd. Ste 305 Austin TX 78754

LCRA Environmental Laboratory Services

QUALITY CONTROL

LCRA-C

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr
Austin, TX 78744



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Project
1105681

Printed 07/01/2024

1
2
3

Blank

Parameter	Property	Reading	MDL	MRB	Units	File
Methoxychlor	1122601	ND	0.897	1.00	ug/L	126441690
Mirex	1122601	ND	0.905	1.00	ug/L	126441690

CCV

Parameter	Reading	Acceptable	Units	Recovery	Units	File
Kelthane (Dicofol)	98.7	100	ug/L	98.7	70.0 - 130	126441689
Kelthane (Dicofol)	141	100	ug/L	141	70.0 - 130	126441697
Methoxychlor	46.2	50.0	ug/L	92.4	70.0 - 130	126441689
Methoxychlor	51.3	50.0	ug/L	103	70.0 - 130	126441697
Mirex	49.5	50.0	ug/L	99.0	70.0 - 130	126441689
Mirex	48.5	50.0	ug/L	97.0	70.0 - 130	126441697

LCS Dup

Parameter	Property	LC S	LC SD	Known	Units	LC S	LC SD	Units	RPD	Units
Kelthane (Dicofol)	1122601	132	135	100	0.100 - 137	132	135	ug/L	2.25	30.0
Methoxychlor	1122601	81.2	80.8	100	21.5 - 151	81.2	80.8	ug/L	0.494	30.0
Mirex	1122601	71.4	71.7	100	11.6 - 140	71.4	71.7	ug/L	0.419	30.0

Surrogate

Parameter	Sample	Type	Reading	Acceptable	Units	Recovery	Units	File
Decachlorobiphenyl	625249	CCV	47.6	100	ug/L	47.6	10.0 - 150	126441689
Decachlorobiphenyl	625249	CCV	44.3	100	ug/L	44.3	10.0 - 150	126441697
Tetrachloro-m-Xylene (Sur)	625249	CCV	45.5	100	ug/L	45.5	10.0 - 150	126441689
Tetrachloro-m-Xylene (Sur)	625249	CCV	44.3	100	ug/L	44.3	10.0 - 150	126441697
Decachlorobiphenyl	1122601	Blank	54.5	100	ug/L	54.5	10.0 - 150	126441690
Decachlorobiphenyl	1122601	LCS	67.4	100	ug/L	67.4	10.0 - 150	126441691
Decachlorobiphenyl	1122601	LCS Dup	66.4	100	ug/L	66.4	10.0 - 150	126441692
Tetrachloro-m-Xylene (Sur)	1122601	Blank	51.4	100	ug/L	51.4	10.0 - 150	126441690
Tetrachloro-m-Xylene (Sur)	1122601	LCS	49.6	100	ug/L	49.6	10.0 - 150	126441691
Tetrachloro-m-Xylene (Sur)	1122601	LCS Dup	55.7	100	ug/L	55.7	10.0 - 150	126441692
Decachlorobiphenyl	2304640	Unknown	0.280	1.05	ug/L	26.7	10.0 - 150	126441693
Tetrachloro-m-Xylene (Sur)	2304640	Unknown	0.369	1.05	ug/L	35.1	10.0 - 150	126441693

Analytical Set: 1123727

EPA 608.3

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Parameter	Property	Reading	MDL	MRB	Units	File
4,4-DDD	1122601	ND	0.731	1.00	ug/L	126441764
4,4-DDD	1122601	ND	0.361	1.00	ug/L	126441764
4,4-DDT	1122601	ND	0.862	1.00	ug/L	126441764
Aldrin	1122601	ND	0.260	1.00	ug/L	126441764
Alpha-BHC (hexachlorocyclohexane)	1122601	ND	0.280	1.00	ug/L	126441764
Beta-BHC (hexachlorocyclohexane)	1122601	ND	0.579	1.00	ug/L	126441764
Delta-BHC (hexachlorocyclohexane)	1122601	ND	0.898	1.00	ug/L	126441764
Dieldrin	1122601	ND	0.162	1.00	ug/L	126441764
Endosulfan I (alpha)	1122601	ND	0.679	1.00	ug/L	126441764
Endosulfan II (beta)	1122601	0.835	0.356	1.00	ug/L	126441764

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Central TX Region, 8505 Cameron Rd., Ste 305 Austin, TX 78754

LCRA Environmental Laboratory Services, 3505 Montopolis Drive

QUALITY CONTROL

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Parameter	Project	Reading	MDL	MDL	Units	File
Endosulfan sulfate	1122601	ND	0.588	1.00	ug/L	126441764
Endrin	1122601	ND	0.538	1.00	ug/L	126441764
Endrin aldehyde	1122601	0.992	0.699	1.00	ug/L	126441764
Gamma-BHC (Lindane)	1122601	ND	0.385	1.00	ug/L	126441764
Heptachlor	1122601	ND	0.207	1.00	ug/L	126441764
Heptachlor epoxide	1122601	ND	0.660	1.00	ug/L	126441764
Toxaphene	1122601	ND	0.169	0.200	ug/L	126441764

CCV

Parameter	Reading	Amount	Units	Recovery%	Amount%	File
4,4-DDD	49.1	50.0	ug/L	98.2	75.0 - 125	126441763
4,4-DDD	45.1	50.0	ug/L	90.2	75.0 - 125	126441771
4,4-DDD	49.7	50.0	ug/L	99.4	75.0 - 125	126441763
4,4-DDD	47.2	50.0	ug/L	94.4	75.0 - 125	126441771
4,4-DDT	47.3	50.0	ug/L	94.6	75.0 - 125	126441763
4,4-DDT	49.2	50.0	ug/L	98.4	75.0 - 125	126441771
Aldrin	48.8	50.0	ug/L	97.6	75.0 - 125	126441763
Aldrin	45.1	50.0	ug/L	90.2	75.0 - 125	126441771
Alpha-BHC (hexachlorocyclohexane)	47.9	50.0	ug/L	95.8	75.0 - 125	126441763
Alpha-BHC (hexachlorocyclohexane)	44.6	50.0	ug/L	89.2	75.0 - 125	126441771
Beta-BHC (hexachlorocyclohexane)	46.3	50.0	ug/L	92.6	75.0 - 125	126441763
Beta-BHC (hexachlorocyclohexane)	42.8	50.0	ug/L	85.6	75.0 - 125	126441771
Delta-BHC (hexachlorocyclohexane)	48.5	50.0	ug/L	97.0	75.0 - 125	126441763
Delta-BHC (hexachlorocyclohexane)	46.9	50.0	ug/L	93.8	75.0 - 125	126441771
Dieldrin	48.6	50.0	ug/L	97.2	75.0 - 125	126441763
Dieldrin	45.1	50.0	ug/L	90.2	75.0 - 125	126441771
Endosulfan I (alpha)	48.0	50.0	ug/L	96.0	75.0 - 125	126441763
Endosulfan I (alpha)	44.1	50.0	ug/L	88.2	75.0 - 125	126441771
Endosulfan II (beta)	49.0	50.0	ug/L	98.0	75.0 - 125	126441763
Endosulfan II (beta)	43.9	50.0	ug/L	87.8	75.0 - 125	126441771
Endosulfan sulfate	45.3	50.0	ug/L	90.6	75.0 - 125	126441763
Endosulfan sulfate	40.5	50.0	ug/L	81.0	75.0 - 125	126441771
Endrin	49.0	50.0	ug/L	98.0	75.0 - 125	126441763
Endrin	47.0	50.0	ug/L	94.0	75.0 - 125	126441771
Endrin aldehyde	48.4	50.0	ug/L	96.8	75.0 - 125	126441763
Endrin aldehyde	44.3	50.0	ug/L	88.6	75.0 - 125	126441771
Gamma-BHC (Lindane)	47.5	50.0	ug/L	95.0	75.0 - 125	126441763
Gamma-BHC (Lindane)	43.5	50.0	ug/L	87.0	75.0 - 125	126441771
Heptachlor	46.8	50.0	ug/L	93.6	75.0 - 125	126441763
Heptachlor	43.4	50.0	ug/L	86.8	75.0 - 125	126441771
Heptachlor epoxide	47.1	50.0	ug/L	94.2	75.0 - 125	126441763
Heptachlor epoxide	43.3	50.0	ug/L	86.6	75.0 - 125	126441771

LCS Dup

Parameter	Project	LCS	LCS	Amount	Amount	LCS	LCS	Units	RPD	Amount
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LCS Dup

Parameter	Sample ID	Conc	Reading	Recovery	Units	Limit	Conc	Reading	Recovery	Units	Limit
4,4-DDD	1122601	80.0	78.7	100	31.0 - 141	80.0	78.7	ug/L	1.64	39.0	
4,4-DDD	1122601	72.0	69.0	100	30.0 - 145	72.0	69.0	ug/L	4.26	35.0	
4,4-DDD	1122601	80.2	78.9	100	25.0 - 160	80.2	78.9	ug/L	1.63	42.0	
Aldrin	1122601	58.5	61.9	100	42.0 - 140	58.5	61.9	ug/L	5.65	35.0	
Alpha-BHC (hexachlorocyclohexane)	1122601	62.5	67.2	100	37.0 - 140	62.5	67.2	ug/L	7.25	36.0	
Beta-BHC (hexachlorocyclohexane)	1122601	63.7	65.3	100	17.0 - 147	63.7	65.3	ug/L	2.48	44.0	
Delta-BHC (hexachlorocyclohexane)	1122601	72.5	73.8	100	19.0 - 140	72.5	73.8	ug/L	1.78	52.0	
Dieldrin	1122601	68.4	68.8	100	36.0 - 146	68.4	68.8	ug/L	0.583	49.0	
Endosulfan I (alpha)	1122601	58.9	60.3	100	45.0 - 153	58.9	60.3	ug/L	2.35	28.0	
Endosulfan II (beta)	1122601	49.9	49.9	100	0.100 - 202	49.9	49.9	ug/L	0	53.0	
Endosulfan sulfate	1122601	59.2	56.7	100	26.0 - 144	59.2	56.7	ug/L	4.31	38.0	
Endrin	1122601	71.9	71.8	100	30.0 - 147	71.9	71.8	ug/L	0.119	48.0	
Endrin aldehyde	1122601	68.1	69.0	100	37.6 - 158	68.1	69.0	ug/L	1.31	30.0	
Gamma-BHC (Lindane)	1122601	61.5	67.4	100	32.0 - 140	61.5	67.4	ug/L	9.15	39.0	
Heptachlor	1122601	55.2	60.1	100	34.0 - 140	55.2	60.1	ug/L	8.50	43.0	
Heptachlor epoxide	1122601	63.4	64.9	100	37.0 - 142	63.4	64.9	ug/L	2.34	26.0	

Surrogate

Parameter	Sample ID	Type	Reading	Known	Units	Recovery	Limit	Conc
Decachlorobiphenyl	625249	OCV	47.6	100	ug/L	47.6	0.100 - 144	126441763
Decachlorobiphenyl	625249	OCV	44.3	100	ug/L	44.3	0.100 - 144	126441771
Tetrachloro-m-Xylene (Surr)	625249	OCV	45.5	100	ug/L	45.5	0.100 - 107	126441763
Tetrachloro-m-Xylene (Surr)	625249	OCV	44.3	100	ug/L	44.3	0.100 - 107	126441771
Decachlorobiphenyl	1122601	Blank	54.5	100	ug/L	54.5	0.100 - 144	126441764
Decachlorobiphenyl	1122601	LCS	67.4	100	ug/L	67.4	0.100 - 144	126441765
Decachlorobiphenyl	1122601	LCS Dup	66.4	100	ug/L	66.4	0.100 - 144	126441766
Tetrachloro-m-Xylene (Surr)	1122601	Blank	51.4	100	ug/L	51.4	0.100 - 107	126441764
Tetrachloro-m-Xylene (Surr)	1122601	LCS	49.6	100	ug/L	49.6	0.100 - 107	126441765
Tetrachloro-m-Xylene (Surr)	1122601	LCS Dup	55.7	100	ug/L	55.7	0.100 - 107	126441766
Decachlorobiphenyl	2304640	Unknown	0.028	0.105	ug/L	26.7	0.100 - 144	126441767
Tetrachloro-m-Xylene (Surr)	2304640	Unknown	0.0369	0.105	ug/L	35.1	0.100 - 107	126441767

Analytical Set 1123853

EPA 608.3

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Parameter	Sample ID	Reading	MQ	MQ	Units	Conc
PCB-1016	1122603	ND	0.202	0.202	ug/L	126443780
PCB-1221	1122603	ND	0.143	0.200	ug/L	126443780
PCB-1232	1122603	ND	0.143	0.200	ug/L	126443780
PCB-1242	1122603	ND	0.192	0.200	ug/L	126443780
PCB-1248	1122603	ND	0.143	0.200	ug/L	126443780
PCB-1254	1122603	ND	0.143	0.200	ug/L	126443780
PCB-1260	1122603	ND	0.161	0.200	ug/L	126443780
PCB-1262	1122603	ND	0.198	0.200	ug/L	126443780
PCB-1268	1122603	ND	0.143	0.200	ug/L	126443780

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Central TX Region, 8501 Cameron Rd., Ste 305 Austin TX 78754

11/11/2023 10:00 AM Central TX Region 11/11/2023 10:00 AM

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CCV

Parameter	Reading	Known	Units	Recovery%	Units%	File
PCB-1016	983	1000	ug/L	98.3	80.0 - 115	126443779
PCB-1016	1060	1000	ug/L	106	80.0 - 115	126443785
PCB-1016	1130	1000	ug/L	113	80.0 - 115	126443793
PCB-1260	881	1000	ug/L	88.1	80.0 - 115	126443779
PCB-1260	911	1000	ug/L	91.1	80.0 - 115	126443785
PCB-1260	945	1000	ug/L	94.5	80.0 - 115	126443793

LC5 Dup

Parameter	Propri	LC5	LCSD	Known	Units%	LC5%	LCSD%	Units	RPD	Units%
PCB-1016	1122603	913	860	1000	39.8 - 135	91.3	86.0	ug/L	5.98	50.0
PCB-1260	1122603	693	678	1000	36.1 - 134	69.3	67.8	ug/L	2.19	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recovery%	Units%	File
Decachlorobiphenyl	1122603	Blank	54.5	100	ug/L	54.5	10.0 - 200	126443780
Tetrachloro-m-Xylene (Sur)	1122603	Blank	51.4	100	ug/L	51.4	10.0 - 200	126443780
Decachlorobiphenyl	2304640	Unknown	0.028	0.105	ug/L	26.7	10.0 - 200	126443783
Tetrachloro-m-Xylene (Sur)	2304640	Unknown	0.0369	0.105	ug/L	35.1	10.0 - 200	126443783

Analytical Set 1124068

EPA 1657

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Parameter	Propri	Reading	MDL	MDL	Units	File
Azinphos-methyl (Guthion)	1122602	ND	41.4	50.0	ug/L	126449400
Chlorpyrifos	1122602	ND	22.6	50.0	ug/L	126449400
Demeton	1122602	ND	31.9	50.0	ug/L	126449400
Diazinon	1122602	ND	19.7	50.0	ug/L	126449400
Malathion	1122602	ND	24.8	50.0	ug/L	126449400
Parathion, ethyl	1122602	ND	23.9	50.0	ug/L	126449400
Parathion, methyl	1122602	ND	27.4	50.0	ug/L	126449400

CCV

Parameter	Reading	Known	Units	Recovery%	Units%	File
Azinphos-methyl (Guthion)	1100	1000	ug/L	110	37.0 - 150	126449394
Azinphos-methyl (Guthion)	1740	1000	ug/L	174	37.0 - 150	126449404
Chlorpyrifos	1050	1000	ug/L	105	48.0 - 150	126449394
Chlorpyrifos	1170	1000	ug/L	117	48.0 - 150	126449404
Demeton	1030	1000	ug/L	103	16.0 - 150	126449394
Demeton	1220	1000	ug/L	122	16.0 - 150	126449404
Diazinon	1040	1000	ug/L	104	50.0 - 150	126449394
Diazinon	1230	1000	ug/L	123	50.0 - 150	126449404
Malathion	1050	1000	ug/L	105	50.0 - 150	126449394
Malathion	1120	1000	ug/L	112	50.0 - 150	126449404
Parathion, ethyl	1060	1000	ug/L	106	50.0 - 150	126449394
Parathion, ethyl	1090	1000	ug/L	109	50.0 - 150	126449404
Parathion, methyl	1110	1000	ug/L	111	50.0 - 150	126449394
Parathion, methyl	1080	1000	ug/L	108	50.0 - 150	126449404

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Central TX Region Bios Cameron Rd Ste 306 Austin TX 78754

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LCS Dup

Parameter	Rep No.	LCN	LCSD	Known	Limit%	LCN%	LCSD%	Units	RPD	Unit%
Azaphos-methyl (Guthion)	1122602	790	1080	1000	0.100 - 152	79.0	108	ug/L	31.0	50.0
Chlorpyrifos	1122602	541	528	1000	0.100 - 132	54.1	52.8	ug/L	2.43	50.0
Demeton	1122602	461	434	1000	0.100 - 114	46.1	43.4	ug/L	6.03	50.0
Diazinon	1122602	481	445	1000	0.100 - 119	48.1	44.5	ug/L	7.75	50.0
Malathion	1122602	540	568	1000	0.100 - 126	54.0	56.8	ug/L	5.05	50.0
Parathion, ethyl	1122602	591	616	1000	0.100 - 138	59.1	61.6	ug/L	4.14	50.0
Parathion, methyl	1122602	483	520	1000	0.100 - 125	48.3	52.0	ug/L	7.38	50.0

Surrogate

Parameter	Sample	Type	Recovery	Known	Units	Recovery%	LCN%	File
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	126449394
Tributylphosphate		CCV	1140	2000	ug/L	57.0	0.100 - 106	126449404
Triphenylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 172	126449394
Triphenylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 172	126449404
Tributylphosphate	1122602	Blank	597	2000	ug/L	29.8	0.100 - 106	126449400
Tributylphosphate	1122602	LCS	630	2000	ug/L	31.5	0.100 - 106	126449401
Tributylphosphate	1122602	LCS Dup	582	2000	ug/L	29.1	0.100 - 106	126449402
Triphenylphosphate	1122602	Blank	538	2000	ug/L	26.9	0.100 - 172	126449400
Triphenylphosphate	1122602	LCS Dup	558	2000	ug/L	27.9	0.100 - 172	126449402
Tributylphosphate	2304640	Unknown	0.541	2.10	ug/L	25.8	0.100 - 106	126449403
Triphenylphosphate	2304640	Unknown	0.509	2.10	ug/L	24.2	0.100 - 172	126449403

Analytical Set: 1124513

EPA 625.1

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Parameter	Rep No.	Reading	MDL	Std/1	Units	File
1,2,4,5-Tetrachlorobenzene	1122598	ND	1.03	1.03	ug/L	126461263
1,2,4-Trichlorobenzene	1122598	ND	0.941	1.00	ug/L	126461263
1,2-Dichlorobenzene	1122598	ND	1.04	5.00	ug/L	126461263
1,2-DPH (as benzene)	1122598	ND	0.238	1.00	ug/L	126461263
1,3-Dichlorobenzene	1122598	ND	0.954	5.00	ug/L	126461263
1,4-Dichlorobenzene	1122598	ND	1.01	5.00	ug/L	126461263
2,4,5-Trichlorophenol	1122598	ND	0.961	5.00	ug/L	126461263
2,4,6-Trichlorophenol	1122598	ND	1.24	2.00	ug/L	126461263
2,4-Dichlorophenol	1122598	ND	0.222	1.00	ug/L	126461263
2,4-Dimethylphenol	1122598	ND	0.536	1.00	ug/L	126461263
2,4-Dinitrophenol	1122598	ND	1.34	2.00	ug/L	126461263
2,4-Dinitrotoluene	1122598	ND	1.35	2.00	ug/L	126461263
2,6-Dinitrotoluene	1122598	ND	1.29	2.00	ug/L	126461263
2,4-bis(4-chlorophenyl)ethane	1122598	ND	0.150	1.00	ug/L	126461263
2,4-bisphenol	1122598	ND	0.275	1.00	ug/L	126461263
2-Methylphenol (o-Cresol)	1122598	ND	8.48	10.0	ug/L	126461263
2-Nitrophenol	1122598	ND	0.554	1.00	ug/L	126461263
3,4-Methylphenol (m,p-Cresol)	1122598	ND	7.78	8.00	ug/L	126461263
3,5-Dichlorobenzidine	1122598	ND	1.39	2.00	ug/L	126461263
4,6-Dinitro-2-methylphenol	1122598	ND	1.15	2.00	ug/L	126461263

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Parameter	Process	Recovery	MOH	MOH	Units
4-Bromophenyl phenyl ether	1122598	ND	0.772	1.00	ug/L
4-Chlorophenyl phenyl ether	1122598	ND	0.202	1.00	ug/L
4-Nitrophenol	1122598	ND	0.789	1.00	ug/L
Acenaphthene	1122598	ND	0.177	1.00	ug/L
Acenaphthylene	1122598	ND	0.240	1.00	ug/L
Anthracene	1122598	ND	0.241	1.00	ug/L
Benzadine	1122598	ND	1.40	1.50	ug/L
Benzo(a)anthracene	1122598	ND	0.225	1.00	ug/L
Benzo(a)pyrene	1122598	ND	0.900	1.00	ug/L
Benzo(b)fluoranthene	1122598	ND	0.547	1.00	ug/L
Benzo(ghi)perylene	1122598	ND	0.881	1.00	ug/L
Benzo(k)fluoranthene	1122598	ND	0.252	1.00	ug/L
Butyl Butyl phthalate	1122598	ND	0.204	7.50	ug/L
Di(2-chloroethoxy)methane	1122598	ND	0.277	1.00	ug/L
Di(2-chloroethyl)ether	1122598	ND	0.348	1.00	ug/L
Di(2-chloroisopropyl)ether	1122598	ND	0.738	1.00	ug/L
Di(2-ethylhexyl)phthalate	1122598	ND	1.12	7.50	ug/L
Chrysene (Benzo(a)phenanthrene)	1122598	ND	0.289	1.00	ug/L
Dibenz(a,h)anthracene	1122598	ND	0.689	1.00	ug/L
Diethyl phthalate	1122598	ND	0.253	5.70	ug/L
Dimethyl phthalate	1122598	ND	0.540	4.80	ug/L
Di-n-butylphthalate	1122598	ND	0.978	7.50	ug/L
Di-n-octylphthalate	1122598	ND	1.92	2.00	ug/L
Fluoranthene (Benzo(a,k)fluorene)	1122598	ND	0.318	1.00	ug/L
Fluorene	1122598	ND	0.275	1.00	ug/L
Hexachlorobenzene	1122598	ND	0.871	1.00	ug/L
Hexachlorobutadiene	1122598	ND	1.03	1.03	ug/L
Hexachlorocyclopentadiene	1122598	ND	0.536	1.00	ug/L
Hexachloroethane	1122598	ND	1.05	2.00	ug/L
Indeno(1,2,3-cd)pyrene	1122598	ND	0.596	1.00	ug/L
Isophorone	1122598	ND	0.429	1.00	ug/L
Naphthalene	1122598	ND	0.225	1.00	ug/L
Nitrobenzene	1122598	ND	0.271	1.00	ug/L
n-Nitrosodimethylamine	1122598	ND	0.747	1.00	ug/L
N-Nitrosodimethylamine	1122598	ND	0.542	1.00	ug/L
n-Nitroso-di-n-butylamine	1122598	ND	0.310	1.00	ug/L
N-Nitroso-di-n-propylamine	1122598	ND	0.425	1.00	ug/L
N-Nitrosodiphenylamine (as DPA)	1122598	ND	0.404	1.00	ug/L
p-Chloro-m-Toluenol (4-Chloro-3-me	1122598	ND	0.588	1.00	ug/L
Pentachlorobenzene	1122598	ND	0.977	1.00	ug/L
Pentachlorophenol	1122598	ND	0.960	5.00	ug/L
Phenanthrene	1122598	ND	0.269	1.00	ug/L
Phenol	1122598	ND	0.332	1.00	ug/L
Pyrene	1122598	ND	0.291	1.00	ug/L
Pyridine	1122598	ND	1.35	1.35	ug/L

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Central TX Region: 8101 Cameron Rd. Ste 305 Austin TX 78754

LCRA Environmental Laboratory Services, Inc. 07/01/24

QUALITY CONTROL

LCRA-C

LCRA Environmental Laboratory
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Austin, TX 78744



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CCV

Parameter	Recovery	Acceptance	Units	Recovery	Acceptance	Units
1,2,4,5-Tetrachlorobenzene	48200	50000	ug/L	96.4	60.0 - 140	126461259
1,2,4-Trichlorobenzene	48600	50000	ug/L	97.2	61.0 - 130	126461259
1,2-Dichlorobenzene	47800	50000	ug/L	95.6	60.0 - 140	126461259
1,2-DHP (as azobenzene)	53400	50000	ug/L	107	60.0 - 140	126461259
1,3-Dichlorobenzene	43700	50000	ug/L	87.4	60.0 - 140	126461259
1,4-Dichlorobenzene	42500	50000	ug/L	85.0	60.0 - 140	126461259
2,4,5-Trichlorophenol	49400	50000	ug/L	98.8	69.0 - 130	126461259
2,4,6-Trichlorophenol	46000	50000	ug/L	92.0	69.0 - 130	126461259
2,4-Dichlorophenol	44700	50000	ug/L	89.4	64.0 - 130	126461259
2,4-Dimethylphenol	42200	50000	ug/L	84.4	58.0 - 130	126461259
2,4-Dinitrophenol	45400	50000	ug/L	90.8	39.0 - 173	126461259
2,4-Dinitrotoluene	50900	50000	ug/L	102	53.0 - 130	126461259
2,6-Dinitrotoluene	52000	50000	ug/L	104	68.0 - 137	126461259
2-Chloronaphthalene	41500	50000	ug/L	83.0	70.0 - 130	126461259
2-Chlorophenol	43300	50000	ug/L	86.6	55.0 - 130	126461259
2-Methylphenol (o-Cresol)	37700	50000	ug/L	75.4	60.0 - 140	126461259
2-Nitrophenol	46200	50000	ug/L	92.4	61.0 - 163	126461259
3,4,4-Methylphenol (m&p-c-resol)	38700	50000	ug/L	77.4	60.0 - 140	126461259
3,3'-Dichlorobenzidine	60900	50000	ug/L	122	18.0 - 213	126461259
4,6-Dinitro-2-methylphenol	47400	50000	ug/L	94.8	56.0 - 130	126461259
4-Bromophenyl phenyl ether	49400	50000	ug/L	98.8	70.0 - 130	126461259
4-Chlorophenyl phenyl ether	46500	50000	ug/L	93.0	57.0 - 145	126461259
4-Nitrophenol	46000	50000	ug/L	92.0	35.0 - 135	126461259
Acenaphthene	50100	50000	ug/L	100	70.0 - 130	126461259
Acenaphthylene	50000	50000	ug/L	100	60.0 - 130	126461259
Anthracene	50700	50000	ug/L	101	58.0 - 130	126461259
Benazidine	27600	50000	ug/L	55.2	20.0 - 180	126461259
Benzo(a)anthracene	50000	50000	ug/L	100	42.0 - 133	126461259
Benzo(a)pyrene	52000	50000	ug/L	104	32.0 - 148	126461259
Benzo(b)fluoranthene	47300	50000	ug/L	94.6	42.0 - 140	126461259
Benzo(g,h,i)perylene	50600	50000	ug/L	101	13.0 - 195	126461259
Benzo(k)fluoranthene	52400	50000	ug/L	105	25.0 - 146	126461259
Benzyl Butyl phthalate	51600	50000	ug/L	103	43.0 - 140	126461259
Bis(2-chloroethoxy)methane	49600	50000	ug/L	99.2	52.0 - 164	126461259
Bis(2-chloroethyl)ether	44400	50000	ug/L	88.8	52.0 - 130	126461259
Bis(2-chloroisopropoxy)ether	47500	50000	ug/L	95.0	63.0 - 139	126461259
Bis(2-ethylhexyl)phthalate	44600	50000	ug/L	89.2	43.0 - 137	126461259
Chrysene (Benzo(a)phenanthrene)	49100	50000	ug/L	98.2	44.0 - 140	126461259
Dibenz(a,h)anthracene	55000	50000	ug/L	110	13.0 - 200	126461259
Diethyl phthalate	50000	50000	ug/L	100	47.0 - 130	126461259
Dimethyl phthalate	51200	50000	ug/L	102	50.0 - 130	126461259
Di-n-butylphthalate	48900	50000	ug/L	97.8	52.0 - 130	126461259
Di-n-octylphthalate	48600	50000	ug/L	97.2	21.0 - 132	126461259
Fluoranthene (Benzo(a,k)fluorene)	49000	50000	ug/L	98.0	47.0 - 130	126461259
Fluorene	49100	50000	ug/L	98.2	70.0 - 130	126461259

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QUALITY CONTROL

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CCV

Parameter	Result	Accept	Units	Recovery %	Target %	File
Hexachlorobenzene	50400	50000	ug/L	101	38.0 - 142	126461259
Hexachlorobutadiene	45900	50000	ug/L	91.8	68.0 - 130	126461259
Hexachlorocyclopentadiene	43600	50000	ug/L	87.2	60.0 - 140	126461259
Hexachloroethane	45100	50000	ug/L	90.2	55.0 - 130	126461259
Indeno(1,2,3-cd)pyrene	46000	50000	ug/L	92.0	13.0 - 151	126461259
Isophorone	56000	50000	ug/L	112	52.0 - 180	126461259
Naphthalene	47000	50000	ug/L	94.0	70.0 - 130	126461259
Nitrobenzene	40000	50000	ug/L	80.0	54.0 - 158	126461259
n-Nitrosodimethylamine	77500	50000	ug/L	155	60.0 - 140	126461259
N-Nitrosodimethylamine	42400	50000	ug/L	84.8	60.0 - 140	126461259
n-Nitroso-di-n-butylamine	46600	50000	ug/L	93.2	60.0 - 140	126461259
N-Nitrosodi-n-propylamine	47900	50000	ug/L	95.8	59.0 - 170	126461259
N-Nitrosodiphenylamine (as DPA)	43500	50000	ug/L	87.0	60.0 - 140	126461259
p-Chloro-m-4'-resol 14-Chloro-3-m	43800	50000	ug/L	87.6	68.0 - 130	126461259
Pentachlorobenzene	45500	50000	ug/L	91.0	60.0 - 140	126461259
Pentachlorophenol	46600	50000	ug/L	93.2	42.0 - 152	126461259
Phenanthrene	45600	50000	ug/L	91.2	67.0 - 130	126461259
Phenol	38600	50000	ug/L	77.2	48.0 - 130	126461259
Pyrene	47400	50000	ug/L	94.8	70.0 - 130	126461259
Pyridine	42800	50000	ug/L	85.6	60.0 - 140	126461259

DFTPP

Parameter	Result	Accept	Units	Recovery %	Target %	File
DFTPP Mass 127	625102	198	57901	52.8	40.0 - 60.0	126461257
DFTPP Mass 197	625102	198	0	0.0	0 - 1.00	126461257
DFTPP Mass 198	625102	198	109643	100.0	100 - 100	126461257
DFTPP Mass 199	625102	198	7184	6.6	5.00 - 9.00	126461257
DFTPP Mass 275	625102	198	32486	29.6	10.0 - 30.0	126461257
DFTPP Mass 365	625102	198	7319	6.7	1.00 - 100	126461257
DFTPP Mass 441	625102	443	3494	16.8	0 - 100	126461257
DFTPP Mass 442	625102	198	107965	98.5	40.0 - 100	126461257
DFTPP Mass 443	625102	442	20743	19.2	17.0 - 23.0	126461257
DFTPP Mass 51	625102	198	35046	32.0	30.0 - 60.0	126461257
DFTPP Mass 68	625102	69.0	0	0.0	0 - 2.00	126461257
DFTPP Mass 69	625102	198	37536	34.2	0 - 100	126461257
DFTPP Mass 70	625102	69.0	0	0.0	0 - 2.00	126461257

LCS Dup

Parameter	Project	LC S	LC SD	Accept	Target %	LC S %	Result	Units	RPD	Limit
1,2,4,5-Tetrachlorobenzene	1122598	10.8	10.4	12.5	27.5 - 85.5	86.4 *	83.2	ug/l	3.77	50.0
1,2,4-Trichlorobenzene	1122598	12.4	10.2	12.5	44.0 - 142	99.2	81.6	ug/l	19.5	50.0
1,2-Dichlorobenzene	1122598	10.8	8.83	12.5	23.0 - 81.8	86.4 *	70.6	ug/l	20.1	50.0
1,2-DPH (as benzene)	1122598	11.4	11.4	12.5	12.6 - 110	91.2	91.2	ug/L	0	50.0
1,3-Dichlorobenzene	1122598	10.5	9.59	12.5	21.1 - 80.5	84.0 *	76.7	ug/L	9.09	50.0
1,4-Dichlorobenzene	1122598	10.6	9.56	12.5	21.4 - 76.9	84.8 *	76.5	ug/l	10.3	50.0

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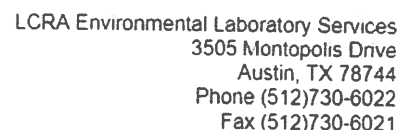


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Parameter	Property	LC-5	LC-50	Kowwin	Conc. (μg/L)	LC-50	LC-50 (μg/L)	LC-50 (μg/L)	LC-50 (μg/L)	LC-50 (μg/L)	LC-50 (μg/L)
2,4,5-Trichlorophenol	1122598	12.5	12.3	12.5	51.3 - 109	100	98.4	ug/L	1.61	50.0	
2,4,6-Trichlorophenol	1122598	11.8	12.2	12.5	37.0 - 144	94.4	97.6	ug/L	3.33	58.0	
2,4-Dichlorophenol	1122598	13.8	11.5	12.5	39.0 - 135	110	92.0	ug/L	17.3	50.0	
2,4-Dimethylphenol	1122598	5.82	4.95	12.5	23.0 - 120	46.6	39.6	ug/L	16.2	68.0	
2,4-Dinitrophenol	1122598	11.3	12.7	12.5	0.100 - 191	90.4	102	ug/L	12.1	132	
2,4-Dinitrotoluene	1122598	12.1	12.8	12.5	39.0 - 139	96.8	102	ug/L	5.23	42.0	
2,6-Dinitrotoluene	1122598	12.6	12.4	12.5	50.0 - 158	101	99.2	ug/L	1.80	48.0	
2,4-Hydroxyphenylacetylene	1122598	10.8	10.7	12.5	60.0 - 120	86.4	85.6	ug/L	0.930	24.0	
2,4-Hydroxyphenol	1122598	11.4	10.9	12.5	23.0 - 134	81.2	87.2	ug/L	4.48	61.0	
2-Methylphenol (o-Cresol)	1122598	10.3	8.67	12.5	38.9 - 76.1	92.4 *	69.4	ug/L	17.1	50.0	
2-Nitrophenol	1122598	13.4	11.3	12.5	29.0 - 182	107	90.4	ug/L	16.8	44.0	
3,4,4-Methylphenol (m,p-Cresol)	1122598	8.93	8.92	12.5	33.0 - 70.4	71.4 *	71.4 *	ug/L	0	50.0	
3,3'-Dichlorobenzidine	1122598	11.2	11.5	12.5	0.100 - 262	89.6	92.0	ug/L	2.64	108	
4,6-Dinitro-2-methylphenol	1122598	10.2	10.5	12.5	0.100 - 181	81.6	84.0	ug/L	2.90	203	
4-Hydroxyphenyl phenyl ether	1122598	10.7	9.88	12.5	53.0 - 127	85.6	79.0	ug/L	8.02	43.0	
4-Chlorophenyl phenyl ether	1122598	11.3	11.5	12.5	25.0 - 158	90.4	92.0	ug/L	1.75	61.0	
4-Nitrophenol	1122598	4.91	4.87	12.5	0.100 - 132	39.3	39.0	ug/L	0.766	131	
Acenaphthene	1122598	11.6	11.6	12.5	47.0 - 145	92.8	92.8	ug/L	0	48.0	
Acenaphthylene	1122598	11.9	11.9	12.5	33.0 - 145	95.2	95.2	ug/L	0	74.0	
Anthracene	1122598	12.2	12.2	12.5	27.0 - 133	97.6	97.6	ug/L	0	96.0	
Benztidine	1122598	0.730	1.45	12.5	0.100 - 36.9	5.84	11.6	ug/L	66.1	90.0	
Benzo(a)anthracene	1122598	11.7	12.1	12.5	33.0 - 143	93.6	96.8	ug/L	3.36	53.0	
Benzo(a)pyrene	1122598	12.2	11.9	12.5	17.0 - 163	97.6	95.2	ug/L	3.49	72.0	
Benzo(b)fluoranthene	1122598	12.6	11.5	12.5	24.0 - 159	101	92.0	ug/L	9.33	71.0	
Benzo(g,h,i)perylene	1122598	12.0	12.3	12.5	0.100 - 219	96.0	98.4	ug/L	2.47	97.0	
Benzo(k)fluoranthene	1122598	15.1	13.4	12.5	11.0 - 162	121	107	ug/L	12.3	63.0	
Benzyl Butyl phthalate	1122598	10.9	13.0	12.5	0.100 - 152	87.2	104	ug/L	17.6	60.0	
Bis(2-chloroethoxy)methane	1122598	13.3	12.0	12.5	33.0 - 184	106	96.0	ug/L	9.90	54.0	
Bis(2-chloroethyl)ether	1122598	11.9	11.5	12.5	12.0 - 158	95.2	92.0	ug/L	3.42	108	
Bis(2-chloroisopropyl)ether	1122598	13.6	11.9	12.5	36.0 - 166	109	95.2	ug/L	13.5	76.0	
Bis(2-ethylhexyl)phthalate	1122598	11.6	12.7	12.5	8.00 - 158	92.8	102	ug/L	9.45	82.0	
Chrysene (Benzo(a)phenanthrene)	1122598	11.8	12.1	12.5	17.0 - 168	94.4	96.8	ug/L	2.51	87.0	
Dibenz(a,h)anthracene	1122598	12.5	11.4	12.5	0.100 - 227	100	91.2	ug/L	9.21	126	
Diethyl phthalate	1122598	11.9	11.8	12.5	0.100 - 120	95.2	94.4	ug/L	0.844	100	
Dimehyl phthalate	1122598	11.7	11.8	1							

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LCS Dup

Parameter	Page No.	LC5	LC50	Known	Units%	LC50%	LC50%	Units	RPD	Units%
Naphthalene	1122598	13.3	11.1	12.5	21.0 - 133	106	88.8	ug/L	17.7	65.0
Nitrobenzene	1122598	12.7	11.0	12.5	35.0 - 180	102	88.0	ug/L	14.7	62.0
n-Nitrosodimethylamine	1122598	22.5	21.3	12.5	18.0 - 100	180 *	170 *	ug/L	5.71	50.0
N-Nitrosodimethylamine	1122598	7.24	6.64	12.5	30.2 - 74.9	57.9	53.1	ug/L	8.65	50.0
n-Nitroso-di-n-butylamine	1122598	13.1	10.7	12.5	48.4 - 98.5	105 *	85.6	ug/L	20.4	50.0
N-Nitroso-di-n-propylamine	1122598	12.0	11.7	12.5	0.100 - 230	96.0	93.6	ug/L	2.53	87.0
N-Nitrosodiphenylamine (as DPA)	1122598	11.4	11.1	12.5	49.3 - 94.2	91.2	88.8	ug/L	2.67	50.0
p-Chloro-m-Cresol (4-Chloro-3-mc)	1122598	11.6	11.2	12.5	22.0 - 147	92.8	89.6	ug/L	3.51	70.0
Pentachlorobenzene	1122598	10.7	10.4	12.5	39.3 - 93.7	85.6	83.2	ug/L	2.84	50.0
Pentachlorophenol	1122598	12.4	12.0	12.5	14.0 - 176	99.2	96.0	ug/L	3.28	86.0
Phenanthrene	1122598	11.9	12.0	12.5	54.0 - 120	95.2	96.0	ug/L	0.837	39.0
Phenol	1122598	5.58	5.27	12.5	5.00 - 120	44.6	42.2	ug/L	5.53	64.0
Pyrene	1122598	10.6	12.1	12.5	52.0 - 120	84.8	96.8	ug/L	13.2	49.0
Pyridine	1122598	3.19	4.80	12.5	11.2 - 50.6	25.5	38.4	ug/L	40.4	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recovery%	Units%	File
2,4,6-Tribromophenol	625306	CCV	44300	100000	ug/L	44.3	10.0 - 150	126461259
2,4-Dibromophenol-SURR	625306	CCV	39200	100000	ug/L	39.2	10.0 - 150	126461259
4-Terphenyl-d14-SURR	625306	CCV	40600	50000	ug/L	81.2	30.0 - 150	126461259
Nitrobenzene-d5-SURR	625306	CCV	43500	50000	ug/L	87.0	30.0 - 150	126461259
Phenol-d6-SURR	625306	CCV	44100	100000	ug/L	44.1	10.0 - 150	126461259
2,4,6-Tribromophenol	1122598	Blank	67.0	100	ug/L	67.0	10.0 - 150	126461263
2,4,6-Tribromophenol	1122598	LCS	66.6	100	ug/L	66.6	10.0 - 150	126461264
2,4,6-Tribromophenol	1122598	LCS Dup	66.7	100	ug/L	66.7	10.0 - 150	126461265
2-Fluorophenol-SURR	1122598	Blank	45900	100000	ug/L	45.9	10.0 - 150	126461263
2-Fluorophenol-SURR	1122598	LCS	39100	100000	ug/L	39.1	10.0 - 150	126461264
2-Fluorophenol-SURR	1122598	LCS Dup	36700	100000	ug/L	36.7	10.0 - 150	126461265
4-Terphenyl-d14-SURR	1122598	Blank	36500	50000	ug/L	73.0	30.0 - 150	126461263
4-Terphenyl-d14-SURR	1122598	LCS	19600	50000	ug/L	39.2	30.0 - 150	126461264
4-Terphenyl-d14-SURR	1122598	LCS Dup	20500	50000	ug/L	41.0	30.0 - 150	126461265
Nitrobenzene-d5-SURR	1122598	Blank	39100	50000	ug/L	78.2	30.0 - 150	126461263
Nitrobenzene-d5-SURR	1122598	LCS	26300	50000	ug/L	52.6	30.0 - 150	126461264
Nitrobenzene-d5-SURR	1122598	LCS Dup	22200	50000	ug/L	44.4	30.0 - 150	126461265
Phenol-d6-SURR	1122598	Blank	32800	100000	ug/L	32.8	10.0 - 150	126461263
Phenol-d6-SURR	1122598	LCS	27400	100000	ug/L	27.4	10.0 - 150	126461264
Phenol-d6-SURR	1122598	LCS Dup	26800	100000	ug/L	26.8	10.0 - 150	126461265
2,4,6-Tribromophenol	2304640	Unknown	65.1	107	ug/L	60.8	10.0 - 150	126461266
2-Fluorophenol-SURR	2304640	Unknown	36.1	107	ug/L	33.7	10.0 - 150	126461266
4-Terphenyl-d14-SURR	2304640	Unknown	25.2	53.6	ug/L	47.0	30.0 - 150	126461266
Nitrobenzene-d5-SURR	2304640	Unknown	36.2	53.6	ug/L	67.5	30.0 - 150	126461266
Phenol-d6-SURR	2304640	Unknown	25.3	107	ug/L	23.6	10.0 - 150	126461266

Analytical Set 1124948

ASTM D7065-11

Email: Kilgore.ProjectManagement@spllabs.com



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2/24/24

Central TX Region: 8101 Cameron Rd., Ste 305 Austin TX 78754

Environmental Laboratory Services

QUALITY CONTROL

LCRA-C

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr
Austin, TX 78744



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Project
1105681

Printed 07/01/2024

Blank									
Parameter	Proposed	Reading	MDM	MDM	Units	File			
Nonylphenol	1124341	ND	5.00	30.0	ug/L	126470972			
CCV									
Parameter	Reading	Known	Units	Recovery%	Limits%	File			
Nonylphenol	150000	150000	ug/L	99.8	70.0 - 130	126470971			
Nonylphenol	164000	150000	ug/L	110	70.0 - 130	126470983			
IS Areas									
Parameter	Sample	Type	Reading	CCV ISM	Low	High	File	Proposed	
Acenaphthene-d10-ISTD	624841	CCV	669900	669900	335000	1005000	126470971	624841	
Acenaphthene-d10-ISTD	624841	CCV	645200	669900	335000	1005000	126470983	624841	
Phenanthrene-d10-ISTD	624841	CCV	892600	892600	446300	1339000	126470971	624841	
Phenanthrene-d10-ISTD	624841	CCV	934700	892600	446300	1339000	126470983	624841	
Acenaphthene-d10-ISTD	1124341	Blank	1550000	669900	335000	1005000	126470972	1124341	*
Acenaphthene-d10-ISTD	1124341	LCS	1124000	669900	335000	1005000	126470973	1124341	*
Acenaphthene-d10-ISTD	1124341	LCS Dup	1144000	669900	335000	1005000	126470974	1124341	*
Phenanthrene-d10-ISTD	1124341	Blank	1577000	892600	446300	1339000	126470972	1124341	*
Phenanthrene-d10-ISTD	1124341	LCS	1107000	892600	446300	1339000	126470973	1124341	
Phenanthrene-d10-ISTD	1124341	LCS Dup	1139000	892600	446300	1339000	126470974	1124341	
Acenaphthene-d10-ISTD	2304640	Unknown	969900	669900	335000	1005000	126470976	1124341	
Phenanthrene-d10-ISTD	2304640	Unknown	958300	892600	446300	1339000	126470976	1124341	
IS RetTime									
Parameter	Sample	Type	Reading	CCV ISM	Low	High	File	Proposed	
Acenaphthene-d10-ISTD	624841	CCV	7.217	7.217	7.157	7.277	126470971	624841	
Acenaphthene-d10-ISTD	624841	CCV	7.211	7.217	7.157	7.277	126470983	624841	
Phenanthrene-d10-ISTD	624841	CCV	8.450	8.450	8.390	8.510	126470971	624841	
Phenanthrene-d10-ISTD	624841	CCV	8.450	8.450	8.390	8.510	126470983	624841	
Acenaphthene-d10-ISTD	1124341	Blank	7.211	7.217	7.157	7.277	126470972	1124341	
Acenaphthene-d10-ISTD	1124341	LCS	7.211	7.217	7.157	7.277	126470973	1124341	
Acenaphthene-d10-ISTD	1124341	LCS Dup	7.211	7.217	7.157	7.277	126470974	1124341	
Phenanthrene-d10-ISTD	1124341	Blank	8.450	8.450	8.390	8.510	126470972	1124341	
Phenanthrene-d10-ISTD	1124341	LCS	8.455	8.450	8.390	8.510	126470973	1124341	
Phenanthrene-d10-ISTD	1124341	LCS Dup	8.456	8.450	8.390	8.510	126470974	1124341	
Acenaphthene-d10-ISTD	2304640	Unknown	7.211	7.217	7.157	7.277	126470976	1124341	
Phenanthrene-d10-ISTD	2304640	Unknown	8.456	8.450	8.390	8.510	126470976	1124341	
LCS Dup									
Parameter	Proposed	LCN	LCN	Recovery%	LCN%	LCN%	Units	RPD	Limit%
Nonylphenol	1124341	49.1	72.7	150	56.0 - 112	32.7 *	48.5 *	ug/L	38.9 *
Surrogate									
Parameter	Sample	Type	Reading	Known	Units	Recovery%	Limits%	File	
4-Nonylphenol-SURR	624841	CCV	28300	25000	ug/L	113	50.0 - 130	126470971	
4-Nonylphenol-SURR	624841	CCV	29600	25000	ug/L	118	50.0 - 130	126470983	
4-Nonylphenol-SURR	1124341	Blank	14700	25000	ug/L	58.8	50.0 - 130	126470972	
4-Nonylphenol-SURR	1124341	LCS	16200	25000	ug/L	64.8	50.0 - 130	126470973	

Email: Kilgore.ProjectManagement@spllabs.com

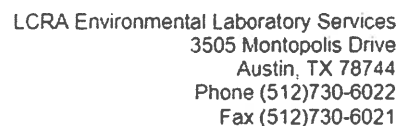


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12/1/2023

Central TX Region - Bios Cameron Rd - Ste 305 Austin TX 78754

12/1/2023 10:00 AM



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Project

1105681

Printed: 07/01/2024

LCRA Environmental Laboratory
Ariana Dean
3505 Montopolis Dr.
Austin, TX 78746

		Surrogate								
Parameter	Sample	Exp	Reading	Known	Units	Recovery%	Concns%	File		
4-Nonylphenol-SURR	1124341	LCS Dup	24000	25000	ug/L	96.0	50.0 - 130	126470974		
4-Nonylphenol-SURR	2304640	Unknown	18.4	24.8	ug/L	74.2	50.0 - 130	126470976		
Analytical Set		1125345								
Blank										
Parameter	PrepSet	Reading	MDI	MDI	Units	File				
Carbaryl (Sevin)	1122600	ND	66.1	2500	ug/L	126480526				
Duron	1122600	129	44.4	45.0	ug/L	126480526				
CCV										
Parameter	Reading	Known	Units	Recovery%	Concns%	File				
Carbaryl (Sevin)	887	1000	ug/L	88.7	70.0 - 130	126480523				
Carbaryl (Sevin)	892	1000	ug/L	89.2	70.0 - 130	126480529				
Carbaryl (Sevin)	906	1000	ug/L	90.6	70.0 - 130	126480530				
Carbaryl (Sevin)	914	1000	ug/L	91.4	70.0 - 130	126480532				
Duron	852	1000	ug/L	85.2	70.0 - 130	126480525				
Duron	866	1000	ug/L	86.6	70.0 - 130	126480529				
Duron	875	1000	ug/L	87.5	70.0 - 130	126480530				
Duron	876	1000	ug/L	87.6	70.0 - 130	126480532				
LCS Dup										
Parameter	PrepSet	LCS	LCS/D	Known	Units	LCS%	LCS/D%	Units	RPD	Limit%
Carbaryl (Sevin)	1122600	1100	1050	1000	ug/L	17.1 - 131	110	105	4.63	30.0
Duron	1122600	42.0	42.0	1000	ug/L	0.100 - 138	4.20	4.20	0	30.0

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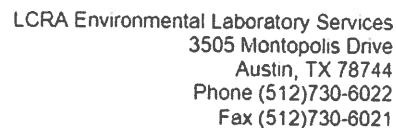
Email: Kilgore.ProjectManagement@spllabs.com



Report Page 24 of 31

2000

Central TX Region: 8121 Cameron Rd. Ste 305 Austin TX 78755



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1 of 7

1105681 CoC Print Group 001 of 001

Document: 45521850 - HBN 154575

Results Requested By:[illegible]

Chain of Custody - Required Limits

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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1105681 CoC Print Group 001 of 001

LCRA Chain of Custody

Document: 45521650 - HBN 154575

Document: 45521650 HBN 154575

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
ASTM D1552-05	Nonylphenol					No
E1857 Pesticides	Azinphos methyl					No
E1857 Pesticides	Chlorpyrifos					No
E1857 Pesticides	Demeton					No
E1857 Pesticides	Disulfoton					No
E 657 Pesticides	Ethyl Parathion					No
E 657 Pesticides	Malathion					No
E4237 Pesticides, Spectrophot	Phenol					No
E604.1, Hexachlorophene	Hexachlorophene					No
E608.3 Organochlorines, PCBs	4,4'-DDT					No
E608.3 Organochlorines, PCBs	4,4'-DDE					No
E608.3 Organochlorines, PCBs	4,4'-DDT					No
E608.3 Organochlorines, PCBs	Aldrin					No
E608.3 Organochlorines, PCBs	Aroclor 1248					No
E608.3 Organochlorines, PCBs	Aroclor 1221					No
E608.3 Organochlorines, PCBs	Aroclor 1242					No
E608.3 Organochlorines, PCBs	Aroclor 1248					No
E608.3 Organochlorines, PCBs	Aroclor 1254					No
E608.3 Organochlorines, PCBs	Aroclor 1260					No
E608.3 Organochlorines, PCBs	Chlordane					No

HORIZON

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LCRA Chain of Custody

Document: 45521850 - PBN 154575

LCRA 3 Organochlorines PCBs	Decon					No
LCRA 3 Organochlorines PCBs	Endosulfen I					No
LCRA 3 Organochlorines PCBs	Endosulfen II					No
LCRA 3 Organochlorines PCBs	Endosulfen sulfate					No
LCRA 3 Organochlorines PCBs	Endrin					No
LCRA 3 Organochlorines PCBs	Endrin aldehyde					No
LCRA 3 Organochlorines PCBs	Heptachlor					No
LCRA 3 Organochlorines PCBs	Heptachlor epoxide					No
LCRA 3 Organochlorines PCBs	PCB, Total					No
LCRA 3 Organochlorines PCBs	Toxaphene					No
LCRA 3 Organochlorines PCBs	alpha-BHC					No
LCRA 3 Organochlorines PCBs	beta-BHC					No
LCRA 3 Organochlorines PCBs	gamma-BHC					No
LCRA 3 Organochlorines PCBs	gamma-BHC (Lindane)					No
ES17	Dieldrin					No
ES17	Methoxychlor					No
ES17	Misc					No
ES25 1 Base/Neutrals and Acids	1,2-Diphenylhydrazine					No
ES25 1 Base/Neutrals and Acids	1,2,4,5-Tetrachlorobenzene					No
ES25 1 Base/Neutrals and Acids	1,2,4-Trichlorobenzene					No
ES25 1 Base/Neutrals and Acids	1,2-Dichlorobenzene					No
ES25 1 Base/Neutrals and Acids	1,3-Dichlorobenzene					No
ES25 1 Base/Neutrals and Acids	1,4-Dichlorobenzene					No
ES25 1 Base/Neutrals and Acids	2,4,5-Trichlorophenol					No

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1105681 CoC Print Group 001 of 001

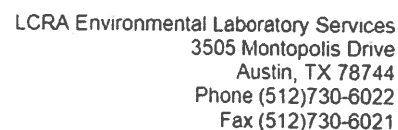
LCRA Chain of Custody

Document: 45521650 - HBN 154675

EA25.1 Base/Neutral and Acid	2,4,6-Trichloropheno-				No
EA25.1 Base/Neutral and Acid	2,4-Dichlorophenol				No
EA25.1 Base/Neutral and Acid	2,4-Dimethylphenol				No
EA25.1 Base/Neutral and Acid	2,4-Dinitrophenol				No
EA25.1 Base/Neutral and Acid	2,4-Dinitrotoluene				No
EA25.1 Base/Neutral and Acid	2,6-Dinitrotoluene				No
EA25.1 Base/Neutral and Acid	2-Chloroanisole				No
EA25.1 Base/Neutral and Acid	2-Chlorophenol				No
EA25.1 Base/Neutral and Acid	2-Methylphenol (o-Cresol)				No
EA25.1 Base/Neutral and Acid	2-Nitrophenol				No
EA25.1 Base/Neutral and Acid	3,4,5-Trichlorophenol (mala-Cresol)				No
EA25.1 Base/Neutral and Acid	3,3'-Dichlorobenzidine				No
EA25.1 Base/Neutral and Acid	4-Amino-2-nitrophenol				No
EA25.1 Base/Neutral and Acid	4-Bromophenyl phenyl ether				No
EA25.1 Base/Neutral and Acid	4-Chloro-3-methylphenol				No
EA25.1 Base/Neutral and Acid	4-Chlorophenyl phenyl ether				No
EA25.1 Base/Neutral and Acid	4-Nitrophenol				No
EA25.1 Base/Neutral and Acid	Acenaphthene				No
EA25.1 Base/Neutral and Acid	Acenaphthylene				No
EA25.1 Base/Neutral and Acid	Anthracene				No
EA25.1 Base/Neutral and Acid	Benzene				No
EA25.1 Base/Neutral and Acid	Benzofuran				No
EA25.1 Base/Neutral and Acid	Benzofuran				No
EA25.1 Base/Neutral and Acid	Benzofuran				No

HQF 20N

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Document: 45521650 - HBN 134575

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LCRA Chain of Custody

Document: 45521650 - HBN 154575

1625.1 Base/Neutrals and Acids	Naphthalene					No
1625.1 Base/Neutrals and Acids	Nitrobenzene					No
1625.1 Base/Neutrals and Acids	Peracetylbiphenyl					No
1625.1 Base/Neutrals and Acids	Peracetylbiphenyl					No
1625.1 Base/Neutrals and Acids	Phenanthrene					No
1625.1 Base/Neutrals and Acids	Phenol					No
1625.1 Base/Neutrals and Acids	Pyrene					No
1625.1 Base/Neutrals and Acids	Pyridine					No
1625.1 Base/Neutrals and Acids	n-Nitrodi-n-butylamine					No
1625.1 Base/Neutrals and Acids	n-Nitrodi-n-propylamine					No
1625.1 Base/Neutrals and Acids	n-Nitrodiethylamine					No
1625.1 Base/Neutrals and Acids	n-Nitrodimethylamine					No
1625.1 Base/Neutrals and Acids	n-Nitrodiphenylamine					No
1625.1 Base/Neutrals and Acids	Carbaryl (Bevle)					No
1625.1 Base/Neutrals and Acids	Carbaryl (Bevle)					No

Printed: 7/2/2024 3:57 PM

HORIZON

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1105681 CoC Print Group 001 of 001

ORIGIN ID: NDA (007) 804-0551 GARTH CENTERBURY SPL KATY 2330 WEST GRAND PARKWAY N KATY, TX 77449 UNITED STATES US	SHIP DATE: 10APR24 ACTWGT: 30.00 LB CGL: 09720040NE14700 DIMS: 18x12x17 IN BILL SENDER
TO LOGIN - SAMPLES ANA-LAB - SPL CORP 2800 DUDLEY RD KILGORE TX 75662	
(007) 804-0551 REF: MEMO BY DATE	
 	

8 of 10	THU - 11 APR 5:00P
7758 9633 7089	STANDARD OVERNIGHT
Metric# 7758 9633 5280	75662
AH GGGA	TX-US SHV
	

6/5 1205 AnV
Date Time Tech
Temp: 1.1 12 C
Therm# : 6443 Corr Fact: 0.1 C

Report Page 31 of 31

Email information for report date:

6/18/24 10:48

H018711

LCRA

Attn: ELS

envlab@lcra.org

3505 Montopolis
Austin, TX 78744

Please contact us for your sampling needs or if you have any questions. Some convenient contacts are listed below. You can also access your results and reports through our ClientConnect™ portal on our website (www.aqua-techlabs.com).

For sampling questions:

samplingbryan@aqua-techlabs.com (Bryan area)
samplingaustin@aqua-techlabs.com (Austin area)

reporting@aqua-techlabs.com (report questions)

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or the above emails if you have questions.

Thank you for your business.
June M. Brien
Executive Technical Director

BRYAN FACILITY
635 Phil Gramm Boulevard
Bryan, TX 77807
Phone: (979) 778-3707
Fax: (979) 778-3193



**AQUA-TECH
LABORATORIES**

AUSTIN FACILITY
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

NEL	TNI accredited parameter
ANR	Accreditation not offered by the State of Texas
DWP	Approval through the TCEQ Drinking Water Commercial Laboratory Approval Program
INF	Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Certificate: T104704371-23-27



Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

General Definitions:

NR	Not Reported.
RPD	Relative Percent Difference
% R	Percent Recovery
dry	Results with the "dry" unit designation are reported on a "dry weight" basis.
SOL	The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SOL includes all sample preparations, dilutions and / or concentrations.
Adj MDL	The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations.
MDL	The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3 TABLE II - Required containers, preservation techniques, and holding times, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.

This report was approved by

June M. Brien
June M. Brien, Technical Director

The results in this report apply only to the samples analyzed. This analytical report must be reproduced in its entirety unless written permission is granted by Aqua-Tech Laboratories, Inc.

corp@aqua-techlabs.com

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Page 1 of 5 H018711_1 ATL 050724 FIN_Is 06 18 24 1048

BRYAN FACILITY
636 Phil Gramm Boulevard
Bryan, TX 77807
Phone (979) 778-3707
Fax (979) 778-3193



AUSTIN FACILITY
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone (512) 301-9559
Fax (512) 301-9552

Analytical Report

Report Printed: 8/18/24 10:48
LCRA
H018711

LCRA Q2423291001

Collected: 06/03/24 10:30 by CLIENT
Received: 06/03/24 14:42 by Brianna Burke

Type -
Grab

Matrix
Non Potable

C-O-C #
H018711

Lab ID# H018711-01

General Chemistry

Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch
Trivalent Chromium	<3.0	ug/L		1.6	3.0	Calc	06/13/24 16:05 MSA	EPA 200.7 R4.4	[CALC]
Hexavalent Chromium	4.15	ug/L	2.77	2.77	3.00	Austin	06/03/24 14:52 MSA	USQS I-1230-85	M178136
Metals (Total)									
Chromium	0.002	mg/L	0.001	0.0005	0.0005	Bryan	06/13/24 16:05 ABM	EPA 200.7 R4.4	M178544

General Chemistry - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Hexavalent Chromium - USQS I-1230-85												
Blank	23.1	ug/L			06/03/24 14:52 MSA	23.2		99.5	90 - 110			2408017
LCS	<3.00	ug/L	2.77	3.00	06/03/24 14:52 MSA							M178136
LCS Dup	44.9	ug/L	2.77	3.00	06/03/24 14:52 MSA	46.4		96.7	90 - 110			M178136
Matrix Spike	44.9	ug/L	2.77	3.00	06/03/24 14:52 MSA	46.4		96.7	90 - 110	0.00	10	M178136
Matrix Spike Dup	54.9	ug/L	2.77	3.00	06/03/24 14:52 MSA	46.4	4.15	109	55 - 130			M178136
MRL Check	56.3	ug/L	2.77	3.00	06/03/24 14:52 MSA	46.4	4.15	112	55 - 130	2.78	10.5	M178136
Initial Cal Check	3.08	ug/L	2.77	3.00	06/03/24 14:52 MSA	3.19		96.6	70 - 130			M178136
	24.5	ug/L			06/16/23 15:53 SR	23.2		106	90 - 110			2308208

Metals (Total) - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Chromium - EPA 200.7 R4.4												
Blank	<0.0005	mg/L	0.0005	0.0005	06/13/24 15:35 ABM							M178544
LCS	1.03	mg/L	0.0005	0.0005	06/13/24 15:39 ABM	1.00		103	84.5 - 115.4			M178544
LCS Dup	1.01	mg/L	0.0005	0.0005	06/13/24 15:49 ABM	1.00		101	84.5 - 115.4	2.29	20	M178544
Duplicate	0.007	mg/L	0.0005	0.0005	06/13/24 15:52 ABM		0.007			9.09	20	M178544
Matrix Spike	0.993	mg/L	0.0005	0.0005	06/13/24 15:55 ABM	1.00	0.007	98.6	69.5 - 130.4			M178544
Matrix Spike Dup	0.962	mg/L	0.0005	0.0005	06/13/24 15:59 ABM	1.00	0.007	95.5	69.5 - 130.4	3.18	20	M178544

Form C: FLINTFORMAT1 050724 FIN 1.5 RPT

Page 2 of 5 H018711_1 ATL 050724 FIN_Is 06 18 24 1048



LCRA Environmental Laboratory Services
3505 Montopolis Drive
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Phone (512)730-6022
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635 Phil Gramm Boulevard
Bryan, TX 77807
Phone: (979) 778-3707
Fax: (979) 778-3193



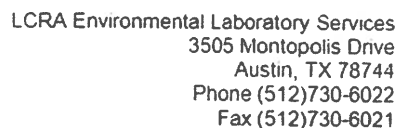
AUSTIN FACILITY
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

Analytical Report

Report Printed: 6/18/24 10:48
LCRA
H018711

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
H018711-01										
Chromium	EPA 200.7 R4.4	6/12/24 12:00 ARM	Bryan	B	50.0	mL	25.0	mL	1	M178544
Hexavalent Chromium	USGS I-1230-85	6/3/24 14:52 MSA	Austin	A	25.0	mL	25.0	mL	1	M178136



118711

Results Requested By:Page 4 of 5 H018711 : ATL 050724 FIN 06 18 24 1048

*HNO3 container brought in by Santing, Oleg @ 6/3/24-15:22
received 6/3/24 15:22 Rianne Burke 73 170118 OCT LT 0704M 20C (BFA)



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

H018711

LCRA Chain of Custody _____

Document: 45521647 - HBN 154572

Chain of Custody - Required Limits _____

Document: 45521647 - HBN 154572

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
SM3500-Cr D. Hexavalent Cr	Hexavalent Chromium		1 ug/L	3 ug/L		No

Page 5 of 5 H018711 1 ATL 050724 FIN 15 06 18 24 1048

Method: SM3500-Cr D. Hexavalent Cr

LCRIZON



June 12, 2024

Ariana Dean
LCRA Env. Services Lab
3505 Montopolis EL101
Austin, Texas 78744
TEL: (512) 730-5694
FAX:
RE: Q2423291

Order No.: 2406011

Dear Ariana Dean:

DHL Analytical, Inc. received 1 sample(s) on 6/4/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,



John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification
Number: T104704211 - TX-C24-00120



2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 386-6122 • FAX (512) 386-8229
www.dhlanalytical.com

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LCRA Chain of Custody

2406011

Results Requested By:[illegible]

Chain of Custody - Required Limits

HORIZON

LCRA Chain of Custody

Document: 45521648 - HBN 154573

Document: 45521648 - HBN 154573

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
E624.1 Purgeables	1,1,1-Trichloroethane					No
E624.1 Purgeables	1,1,2,2-Tetrachloroethane					No
E624.1 Purgeables	1,1,2-Trichloroethane					No
E624.1 Purgeables	1,1-Dichloroethane					No
E624.1 Purgeables	1,1-Dichloroethene					No
E624.1 Purgeables	1,2-Dibromoethane					No
E624.1 Purgeables	1,2-Dichlorobenzene					No
E624.1 Purgeables	1,2-Dichloroethane					No
E624.1 Purgeables	1,2-Dichloropropane					No
E624.1 Purgeables	1,3-Dichlorobenzene					No
E624.1 Purgeables	1,4-Dichlorobenzene					No
E624.1 Purgeables	2-Butanone					No
E624.1 Purgeables	2-Chloroethylvinyl ether					No
E624.1 Purgeables	Acrolein					No
E624.1 Purgeables	Acrylonitrile					No
E624.1 Purgeables	Benzene					No
E624.1 Purgeables	Bromodichloromethane					No
E624.1 Purgeables	Bromoform					No
E624.1 Purgeables	Bromomethane					No
E624.1 Purgeables	Carbon tetrachloride					No
E624.1 Purgeables	Chlorobenzene					No
E624.1 Purgeables	Chloroethane					No

HORIZON

LCRA Chain of Custody

Document: 45521648 - HBN 154573

E624.1 Purgeables	Chloroform					No
E624.1 Purgeables	Chloromethane					No
E624.1 Purgeables	Dibromochloromethane					No
E624.1 Purgeables	Ethyl Benzene					No
E624.1 Purgeables	Methylene chloride					No
E624.1 Purgeables	Tetrachloroethene					No
E624.1 Purgeables	Toluene					No
E624.1 Purgeables	Total Trihalomethanes					No
E624.1 Purgeables	Trichloroethene					No
E624.1 Purgeables	Vinyl chloride					No
E624.1 Purgeables	cis-1,3-Dichloropropene					No
E624.1 Purgeables	trans-1,2-Dichloroethene					No
E624.1 Purgeables	trans-1,3-Dichloropropene					No

HORIZON



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

ORIGIN ID: AUSA (512) 730-6022
SAMPLE RECEIVING
SHIP DATE: 03 JUN 24
ACTWGT 7.00 LB
CAD 260003851/NET4730
3505 MONTOPOLIS DRIVE
LCRA-ENVIRONMENTAL LAB ONLY
AUSTIN, TX 78744
UNITED STATES US
BILL SENDER

TO RECEIVING
DHL ANALYTICAL
2300 DOUBLE CREEK DRIVE

ROUND ROCK TX 78664
(512) 388-6222

FedEx Ship Manager - Print Your Label(s)



TUE - 04 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 7766 7730 1944
0201

44 BSMA

78664
TX-US AUS



6/3/24, 2:21 PM

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name LCRA Env. Services Lab

Date Received: 6/4/2024

Work Order Number: 2406011

Received by: KAO

Checklist completed by:



Signature

6/4/2024
Date

Reviewed by:



Initials

6/4/2024
Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☒ LOT #
	Adjusted?		Checked by
Water - pH>9 (S) or pH>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☒ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Cooler #	1		
Temp °C	2.5		
Seal Intact	NP		

Any No response must be detailed in the comments section below

Client contacted

Date contacted

Person contacted

Contacted by

Regarding

Comments:

Corrective Action:

DHL Analytical, Inc.

Date: 12-Jun-24

CLIENT: LCRA Env. Services Lab

Project: Q2423291

Lab Order: 2406011

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method E624.1 - Volatile Organics Analysis

LOG IN

The sample was received and log-in performed on 6/4/24. A total of 1 sample was received. The sample arrived in good condition and was properly packaged. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

DHL Analytical, Inc.

Date: 12-Jun-24

CLIENT: LCRA Env. Services Lab
Project: Q2423291
Lab Order: 2406011

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2406011-01	Q2423291003		06/03/24 10:30 AM	06/04/2024



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

DHL Analytical, Inc.

12-Jun-24

Lab Order: 2406011
Client: LCRA Env. Services Lab
Project: Q2423291

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2406011-01A	Q2423291003	06/03/24 10:30 AM	Aqueous	E624_PR	Purge and Trap Water GC/MS	06/04/24 09:40 AM	115657
	Q2423291003	06/03/24 10:30 AM	Aqueous	1/624_PR	Purge and Trap Water GC/MS	06/04/24 09:40 AM	115657



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

DHL Analytical, Inc.

12-Jun-24

Lab Order: 2406011
Client: LCRA Env. Services Lab
Project: Q2423291

ANALYTICAL DATA REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2406011-01A	Q2423291003	Aqueous	F624.1	624.1 Volatiles Water	115657	1	06/04/24 12:48 PM	GCM57_240604A
	Q2423291003	Aqueous	F624.1	624.1 Volatiles Water	115657	20	06/04/24 11:59 AM	GCM57_240604A

DIIL Analytical, Inc.

Date: 12-Jun-24

CLIENT: LCRA Env. Services Lab Client Sample ID: Q2423291003
Project: Q2423291 Lab ID: 2406011-01
Project No: Collection Date: 06/03/24 10:30 AM
Lab Order: 2406011 Matrix: AQUEOUS

Analyses	Result	MDL	RI	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		E624.1					Analyst: JVR
1,1,1-Trichloroethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,1,2,2-Tetrachloroethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,1,2-Trichloroethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,1-Dichloroethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,1-Dichloroethene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,2-Dibromoethane	<1.00	1.00	2.00		µg/L	1	06/04/24 12:48 PM
1,2-Dichlorobenzene	<1.00	1.00	5.00		µg/L	1	06/04/24 12:48 PM
1,2-Dichloroethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,2-Dichloropropane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
1,3-Dichlorobenzene	<1.00	1.00	5.00		µg/L	1	06/04/24 12:48 PM
1,4-Dichlorobenzene	<1.00	1.00	5.00		µg/L	1	06/04/24 12:48 PM
2-Butanone	<15.0	15.0	50.0		µg/L	1	06/04/24 12:48 PM
2-Chloroethylvinylether	<6.00	6.00	10.0		µg/L	1	06/04/24 12:48 PM
Acrolein	<15.0	15.0	50.0		µg/L	1	06/04/24 12:48 PM
Acrylonitrile	<3.00	3.00	50.0		µg/L	1	06/04/24 12:48 PM
Benzene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Bromodichloromethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Bromoform	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Bromomethane	<5.00	5.00	20.0		µg/L	1	06/04/24 12:48 PM
Carbon tetrachloride	<1.00	1.00	2.00		µg/L	1	06/04/24 12:48 PM
Chlorobenzene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Chloroethane	<2.00	2.00	10.0		µg/L	1	06/04/24 12:48 PM
Chloroform	6.81	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Chloromethane	<1.00	1.00	20.0		µg/L	1	06/04/24 12:48 PM
Dibromochloromethane	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Ethylbenzene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Methylene chloride	<2.50	2.50	20.0		µg/L	1	06/04/24 12:48 PM
Tetrachloroethene	<2.00	2.00	10.0		µg/L	1	06/04/24 12:48 PM
Toluene	<2.00	2.00	10.0		µg/L	1	06/04/24 12:48 PM
TTHM (Total Trihalomethanes)	0.81	5.00	10.0		µg/L	1	06/04/24 12:48 PM
Trichloroethene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Vinyl chloride	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
Xylenes, Total	<2.00	2.00	10.0		µg/L	1	06/04/24 12:48 PM
cis-1,3-Dichloropropene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
m,p-Xylene	<2.00	2.00	10.0		µg/L	1	06/04/24 12:48 PM
o-Xylene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
trans-1,2-Dichloroethene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM
trans-1,3-Dichloropropene	<1.00	1.00	10.0		µg/L	1	06/04/24 12:48 PM

Qualifiers:	* Value exceeds TCLP Maximum Concentration Level	C Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	F TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RI	MDL Method Detection Limit
ND	Not Detected at the Method Detection Limit	RI Reporting Limit
S	Spike Recovery outside control limits	N Parameter not NH-AP certified

Page 1 of 2

DIIL Analytical, Inc.

Date: 12-Jun-24

CLIENT: LCRA Env. Services Lab **Client Sample ID:** Q2423291003
Project: Q2423291 **Lab ID:** 2406011-01
Project No: **Collection Date:** 06/03/24 10:30 AM
Lab Order: 2406011 **Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		E624.1					Analyst: JVR
Surr: 1,2-Dichloroethane-d4	89.6	0	72-119	%REC		1	06/04/24 12:48 PM
Surr: 4-Bromofluorobenzene	100	0	76-119	%REC		1	06/04/24 12:48 PM
Surr: Dibromofluoromethane	102	0	85-115	%REC		1	06/04/24 12:48 PM
Surr: Toluene-d8	96.0	0	81-120	%REC		1	06/04/24 12:48 PM

Qualifiers:	* Value exceeds TCLP Maximum Concentration Level	C Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	F TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL Reporting Limit
S	Spike Recovery outside control limits	N Parameter not NELAP certified

Page 2 of 2

DHL Analytical, Inc.

Date: 12-Jun-24

CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240604A

The QC data in batch 115657 applies to the following samples: 2406011-01A

Sample ID: LCS-115657	Batch ID: 115657	TestNo: E624.1	Units: µg/L							
SampType: LCS	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 10:45:00 AM	Prep Date: 6/4/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24.7	10.0	23.20	0	106	65	135			
Carbon tetrachloride	22.9	2.00	23.20	0	98.8	70	130			
Chlorobenzene	23.1	10.0	23.20	0	99.6	35	135			
Chloroform	22.8	2.00	23.20	0	98.2	70	135			
Dibromochloromethane	23.0	5.00	23.20	0	99.1	70	135			
1,2-Dibromoethane	23.8	2.00	23.20	0	103	60	140			
1,2-Dichloroethane	21.9	5.00	23.20	0	94.4	70	130			
1,1-Dichloroethene	24.0	5.00	23.20	0	103	50	150			
2-Butanone	109	50.0	116.0	0	93.7	60	140			
Tetrachloroethene	23.2	10.0	23.20	0	100	70	130			
Trichloroethene	26.5	5.00	23.20	0	114	85	135			
1,1,1-Trichloroethane	22.7	10.0	23.20	0	97.8	70	130			
TTM (Total Trihalomethanes)	90.5	10.0	92.80	0	97.6	60	140			
Vinyl chloride	23.7	10.0	23.20	0	102	5	195			
Acrolein	42.0	50.0	58.00	0	72.3	60	140			
Acrylonitrile	41.4	50.0	46.40	0	89.3	60	140			
1,1,2,2-Tetrachloroethane	21.3	10.0	23.20	0	91.8	60	140			
Bromoform	21.4	10.0	23.20	0	92.1	65	135			
Chloroethane	25.1	10.0	23.20	0	108	40	160			
2-Chloroethylvinylether	19.5	10.0	23.20	0	83.9	5	225			
Bromodichloromethane	23.4	5.00	23.20	0	101	65	135			
1,1-Dichloroethane	24.1	10.0	23.20	0	104	70	130			
1,2-Dichloropropane	24.4	10.0	23.20	0	105	35	165			
cis-1,3-Dichloropropene	24.0	10.0	23.20	0	103	25	175			
trans-1,3-Dichloropropene	23.2	10.0	23.20	0	100	50	150			
Ethylbenzene	23.6	10.0	23.20	0	102	60	140			
Bromomethane	21.6	20.0	23.20	0	93.1	15	185			
Chloromethane	19.4	20.0	23.20	0	83.4	5	205			
Methylene chloride	22.9	5.00	23.20	0	98.6	60	140			
Toluene	24.6	10.0	23.20	0	106	70	130			
trans-1,2-Dichloroethene	24.0	2.00	23.20	0	104	70	130			
1,1,2-Trichloroethane	23.8	10.0	23.20	0	103	70	130			
1,2-Dichlorobenzene	22.8	5.00	23.20	0	98.1	65	135			
1,3-Dichlorobenzene	22.8	5.00	23.20	0	98.1	70	130			
1,4-Dichlorobenzene	22.7	5.00	23.20	0	98.0	65	135			
m,p-Xylene	50.8	10.0	46.40	0	110	60	140			
o-Xylene	23.2	10.0	23.20	0	100	60	140			
Xylenes, Total	74.1	10.0	69.60	0	106	60	140			
Surr: 1,2-Dichloroethane-d4	185		200.0		92.5	72	119			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RI	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDI and RL	N	Parameter not NELAP certified

Page 1 of 7

CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240604A

Sample ID: LCS-115657	Batch ID: 115657	TestNo: E624.1	Units: µg/L							
SampType: LCS	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 10:45:00 AM	Prep Date: 6/4/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	196		200.0		97.9	76	119			
Surr: Dibromofluoromethane	208		200.0		104	85	115			
Surr: Toluene-d8	193		200.0		96.3	81	120			

Sample ID	MB-115657	Batch ID	115657	TestNo	E624.1	Units	µg/L			
SampType	MBLK	Run ID	GCMS7_240604A	Analysis Date	6/4/2024 11:34:00 AM	Prep Date	6/4/2024			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<1.00	10.0								
Carbon tetrachloride	<1.00	2.00								
Chlorobenzene	<1.00	10.0								
Chloroform	<1.00	2.00								
Dibromochloromethane	<1.00	5.00								
1,2-Dibromoethane	<1.00	2.00								
1,2-Dichloroethane	<1.00	5.00								
1,1-Dichloroethene	<1.00	5.00								
2-Butanone	<15.0	50.0								
Tetrachloroethene	<2.00	10.0								
Trichloroethene	<1.00	5.00								
1,1,1-Trichloroethane	<1.00	10.0								
TTHM (Total Trihalomethanes)	<5.00	10.0								
Vinyl chloride	<1.00	10.0								
Acrolein	<5.00	50.0								
Acrylonitrile	<3.00	50.0								
1,1,2,2-Tetrachloroethane	<1.00	10.0								
Bromoform	<1.00	10.0								
Chloroethane	<2.00	10.0								
2-Chloroethylvinyl ether	<6.00	10.0								
Bromodichloromethane	<1.00	5.00								
1,1-Dichloroethane	<1.00	10.0								
1,2-Dichloropropane	<1.00	10.0								
cis-1,3-Dichloropropene	<1.00	10.0								
trans-1,3-Dichloropropene	<1.00	10.0								
Ethylbenzene	<1.00	10.0								
Bromomethane	<5.00	20.0								
Chloromethane	<1.00	20.0								
Methylene chloride	<2.50	5.00								
Toluene	<2.00	10.0								
trans-1,2-Dichloroethene	<1.00	2.00								
1,1,2-Trichloroethane	<1.00	10.0								
1,2-Dichlorobenzene	<1.00	5.00								

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RI Reporting Limit
J Analyte detected between SDI and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

Page 2 of 7

CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240604A

Sample ID: MB-115657	Batch ID: 115657	TestNo: E624.1	Units: µg/L							
SampType: MBLK	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 11:34:00 AM	Prep Date: 6/4/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	<1.00	5.00								
1,4-Dichlorobenzene	<1.00	5.00								
m,p-Xylene	<2.00	10.0								
o-Xylene	<1.00	10.0								
Xylenes, Total	<2.00	10.0								
Surr: 1,2-Dichloroethane-d4	182		200.0		91.1	72	119			
Surr: 4-Bromofluorobenzene	196		200.0		98.2	76	119			
Surr: Dibromofluoromethane	204		200.0		102	85	115			
Surr: Toluene-d8	196		200.0		98.2	81	120			

Sample ID	2406011-01AMS	Batch ID	115657	TestNo:	E624.1	Units	µg/L			
SampType	MS	Run ID	GCMS7_240604A	Analysis Date	6/4/2024 2:44:00 PM	Prep Date	6/4/2024			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	508	200	464.0	0	109	37	151			
Carbon tetrachloride	484	40.0	464.0	0	104	70	140			
Chlorobenzene	482	200	464.0	0	104	37	160			
Chloroform	484	40.0	464.0	0	104	51	138			
Dibromochloromethane	466	100	464.0	0	100	53	149			
1,2-Dibromoethane	463	40.0	464.0	0	99.8	40	160			
1,2-Dichloroethane	453	100	464.0	0	97.7	49	155			
1,1-Dichloroethene	493	100	464.0	0	106	10	234			
2-Butanone	2420	1000	2320	0	104	40	160			
Tetrachloroethane	463	200	464.0	0	99.7	64	148			
Trichloroethene	475	100	464.0	0	102	70	157			
1,1,1-Trichloroethane	471	200	464.0	0	102	52	162			
TTHM (Total Trihalomethanes)	1870	200	1856	0	101	40	160			
Vinyl chloride	499	200	464.0	0	108	10	251			
Acrolein	873	1000	1160	0	75.3	40	160			
Acrylonitrile	883	1000	928.0	0	95.2	40	160			
1,1,2,2-Tetrachloroethane	453	200	464.0	0	97.7	46	157			
Bromoform	436	200	464.0	0	94.1	45	169			
Chloroethane	500	200	464.0	0	108	14	230			
2-Chloroethylvinylether	453	200	464.0	0	97.6	5	273			
Bromodichloromethane	481	100	464.0	0	104	35	155			
1,1-Dichloroethane	488	200	464.0	0	105	59	155			
1,2-Dichloropropane	502	200	464.0	0	108	10	210			
cis-1,3-Dichloropropene	504	200	464.0	0	109	10	227			
trans-1,3-Dichloropropene	473	200	464.0	0	102	17	183			
Ethylbenzene	482	200	464.0	0	104	37	162			
Bromomethane	460	400	464.0	0	99.1	10	242			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RI	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDI and RI	N	Parameter not NELAP certified

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CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240604A

Sample ID	2406011-01AMS	Batch ID:	115657	TestNo:	E624.1	Units:	µg/L			
SampType	MS	Run ID	GCMS7_240604A	Analysis Date	6/4/2024 2:44:00 PM	Prep Date	6/4/2024			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	413	400	464.0	0	89.1	5	273			
Methylene chloride	468	100	464.0	0	101	10	221			
Toluene	514	200	464.0	0	111	47	150			
trans-1,2-Dichloroethene	496	40.0	464.0	0	107	54	156			
1,1,2-Trichloroethane	534	200	464.0	0	115	52	150			
1,2-Dichlorobenzene	465	100	464.0	0	100	18	190			
1,3-Dichlorobenzene	466	100	464.0	0	100	59	156			
1,4-Dichlorobenzene	462	100	464.0	0	99.6	18	190			
m,p-Xylene	1050	200	928.0	0	114	40	160			
o-Xylene	459	200	464.0	0	99.0	40	160			
Xylenes, Total	1510	200	1392	0	109	40	160			
Surr: 1,2-Dichloroethane-d4	3630		4000		90.9	72	119			
Surr: 4-Bromofluorobenzene	3850		4000		96.1	76	119			
Surr: Dibromofluoromethane	4080		4000		102	85	115			
Surr: Toluene-d8	3720		4000		93.0	81	120			

Sample ID: 2406011-01AMSD	Batch ID: 115657	TestNo: E624.1	Units: µg/L							
SampType: MSD	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 3:09:00 PM	Prep Date: 6/4/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	514	200	464.0	0	111	37	151	1.25	40	
Carbon tetrachloride	480	40.0	464.0	0	103	70	140	0.830	40	
Chlorobenzene	482	200	464.0	0	104	37	160	0.083	40	
Chloroform	483	40.0	464.0	0	104	51	138	0.165	40	
Dibromochloromethane	451	100	464.0	0	97.1	53	149	3.36	40	
1,2-Dibromoethane	459	40.0	464.0	0	98.9	40	180	0.868	40	
1,2-Dichloroethane	464	100	464.0	0	100	49	155	2.31	40	
1,1-Dichloroethene	514	100	464.0	0	111	10	234	4.13	32	
2-Butanone	2440	1000	2320	0	105	40	160	0.805	40	
Tetrachloroethene	493	200	464.0	0	106	64	148	6.24	39	
Trichloroethene	495	100	464.0	0	107	70	157	4.12	40	
1,1,1-Trichloroethane	476	200	464.0	0	103	52	162	0.971	36	
TTHM (Total Trihalomethanes)	1880	200	1856	0	101	40	160	0.747	40	
Vinyl chloride	476	200	464.0	0	103	10	251	4.76	40	
Acrolein	882	1000	1160	0	76.0	40	160	0.980	40	
Acrylonitrile	909	1000	928.0	0	98.0	40	160	2.88	40	
1,1,2,2-Tetrachloroethane	467	200	464.0	0	101	46	157	3.08	40	
Bromoform	460	200	464.0	0	99.2	45	189	5.31	40	
Chloroethane	470	200	464.0	0	101	14	230	6.23	40	
2-Chloroethylvinylether	494	200	464.0	0	106	5	273	8.66	40	
Bromodichloromethane	487	100	464.0	0	105	35	155	1.32	40	

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RI Reporting Limit
J Analyte detected between SDI and RL

DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAP certified

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CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240604A

Sample ID: 2406011-01AMSD	Batch ID: 115657	TestNo: E624.1	Units: µg/L							
SampType: MSD	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 3:09:00 PM	Prep Date: 6/4/2024							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethane	495	200	464.0	0	107	59	155	1.26	40	
1,2-Dichloropropane	507	200	464.0	0	109	10	210	0.990	40	
cis-1,3-Dichloropropene	511	200	464.0	0	110	10	227	1.38	40	
trans-1,3-Dichloropropene	485	200	464.0	0	105	17	183	2.55	40	
Ethylbenzene	488	200	464.0	0	105	37	162	1.20	40	
Bromomethane	411	400	464.0	0	88.5	10	242	11.3	40	
Chloromethane	415	400	464.0	0	89.5	5	273	0.483	40	
Methylene chloride	494	100	464.0	0	107	10	221	5.44	28	
Toluene	519	200	464.0	0	112	47	150	0.852	40	
trans-1,2-Dichloroethene	516	40.0	464.0	0	111	54	156	3.87	40	
1,1,2-Trichloroethane	508	200	464.0	0	110	52	150	4.95	40	
1,2-Dichlorobenzene	534	100	464.0	0	115	18	190	13.8	40	
1,3-Dichlorobenzene	481	100	464.0	0	104	59	156	3.13	40	
1,4-Dichlorobenzene	473	100	464.0	0	102	18	190	2.27	40	
m,p-Xylene	993	200	928.0	0	107	40	160	5.96	40	
o-Xylene	487	200	464.0	0	105	40	160	5.79	40	
Xylenes, Total	1480	200	1392	0	106	40	160	2.25	40	
Surr: 1,2-Dichloroethane-d4	3640		4000		91.0	72	119	0	0	
Surr: 4-Bromofluorobenzene	3830		4000		95.8	76	119	0	0	
Surr: Dibromofluoromethane	4090		4000		102	85	115	0	0	
Surr: Toluene-d8	3870		4000		96.9	81	120	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RI	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDI and RL	N	Parameter not NELAP certified

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CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_240604A

Sample ID: ICV-240604	Batch ID: R133353	TestNo: E624.1	Units: µg/L							
SampType: ICV	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 10:21:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	48.7	10.0	46.40	0	105	70	130			
Carbon tetrachloride	46.5	2.00	46.40	0	100	70	130			
Chlorobenzene	45.6	10.0	46.40	0	98.2	70	130			
Chloroform	45.5	2.00	46.40	0	98.1	70	130			
Dibromochloromethane	42.5	5.00	46.40	0	91.7	70	130			
1,2-Dibromoethane	47.0	2.00	46.40	0	101	70	130			
1,2-Dichloroethane	44.0	5.00	46.40	0	94.8	70	130			
1,1-Dichloroethene	47.9	5.00	46.40	0	103	70	130			
2-Butanone	207	50.0	232.0	0	89.4	70	130			
Tetrachloroethene	45.5	10.0	46.40	0	98.1	70	130			
Trichloroethene	47.7	5.00	46.40	0	103	70	130			
1,1,1-Trichloroethane	45.2	10.0	46.40	0	97.5	70	130			
TFHM (Total Trihalomethanes)	185	10.0	185.6	0	99.4	70	130			
Vinyl chloride	45.8	10.0	46.40	0	98.8	70	130			
Acrolein	101	50.0	116.0	0	87.2	70	130			
Acrylonitrile	85.9	50.0	92.80	0	92.5	70	130			
1,1,2,2-Tetrachloroethane	42.5	10.0	46.40	0	91.5	70	130			
Bromoform	44.1	10.0	46.40	0	95.1	70	130			
Chloroethane	46.4	10.0	46.40	0	100	70	130			
2-Chloroethylvinylether	44.9	10.0	46.40	0	96.8	70	130			
Bromodichloromethane	52.4	5.00	46.40	0	113	70	130			
1,1-Dichloroethane	47.8	10.0	46.40	0	103	70	130			
1,2-Dichloropropane	49.8	10.0	46.40	0	107	70	130			
cis-1,3-Dichloropropene	54.6	10.0	46.40	0	118	70	130			
trans-1,3-Dichloropropene	44.8	10.0	46.40	0	96.7	70	130			
Ethylbenzene	46.9	10.0	46.40	0	101	70	130			
Bromomethane	40.3	20.0	46.40	0	86.9	70	130			
Chloromethane	40.0	20.0	46.40	0	86.2	70	130			
Methylene chloride	44.7	5.00	46.40	0	96.4	70	130			
Toluene	52.8	10.0	46.40	0	114	70	130			
trans-1,2-Dichloroethane	48.5	2.00	46.40	0	104	70	130			
1,1,2-Trichloroethane	46.9	10.0	46.40	0	101	70	130			
1,2-Dichlorobenzene	44.9	5.00	46.40	0	96.7	70	130			
1,3-Dichlorobenzene	45.1	5.00	46.40	0	97.2	70	130			
1,4-Dichlorobenzene	44.6	5.00	46.40	0	96.1	70	130			
m,p-Xylene	94.5	10.0	92.80	0	102	70	130			
o-Xylene	46.5	10.0	46.40	0	100	70	130			
Xylenes, Total	141	10.0	139.2	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	182		200.0		90.8	72	119			
Surr: 4-Bromofluorobenzene	192		200.0		95.9	76	119			
Surr: Dibromofluoromethane	208		200.0		104	85	115			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RI	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

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CLIENT: LCRA Env. Services Lab
Work Order: 2406011
Project: Q2423291

ANALYTICAL QC SUMMARY REPORT
RunID: GCMS7_240604A

Sample ID: ICV-240604	Batch ID: R133353	TestNo: E624.1	Units: µg/L							
SampType: ICV	Run ID: GCMS7_240604A	Analysis Date: 6/4/2024 10:21:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	207		200.0		104	81	120			

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 7 of 7
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	
	RI	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDI and RI	N	Parameter not NELAP certified	

Laboratory Analysis Report

Total Number of Pages 12

Job ID : 24060346



10100 East Freeway Suite 100, Houston TX 77020 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
Q2423291001-Q2423291003

Report To :	Client Name	LCRA Environmental Laboratory Services	P.O.#	134950
	Attn	Ariana Dean	Sample Collected By	
	Client Address	3505 Montopolis	Date Collected	06/03/24
	City, State, Zip	Austin, Texas, 78744-1417		

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

Client Sample ID	Matrix	A&B Sample ID
Q2423291001	Water	24060346.01
Q2423291002	Water	24060346.02
Q2423291003	Water	24060346.03


Released By: Senthilkumar Sevukan
Title: Vice President Operations
Date: 6/11/2024



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/01/2024; Expires: 03/31/2025

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

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

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

ab-Q210-0321

Date Received 06/04/2024 10:10

LABORATORY TERM AND QUALIFIER DEFINITION REPORT			
		Job ID : 24060346	Date: 6/11/2024
General Term Definition			
Back-Wt	Back Weight	MQL	Unadjusted Minimum Quantitation Limit
BRL	Below Reporting Limit	Post-Wt	Post Weight
cfu	colony-forming units	ppm	parts per million
Conc.	Concentration	Pre-Wt	Previous Weight
D F	Dilution Factor	Q	Qualifier
Front-Wt	Front Weight	RegLimit	Regulatory Limit
J	Estimation Below calibration range but above MDL	RLU	Relative Light Unit
LCS	Laboratory Check Standard	RPD	Relative Percent Difference
LCSD	Laboratory Check Standard Duplicate	RptLimit	Reporting Limit
LOD	Limit of detection adjusted for %M - DF	SDL	Sample Detection Limit
LOO	Limit of Quantitation adjusted for %M - DF	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight	UQL	Unadjusted Upper Quantitation Limit
Qualifier Definition			
U	Undetected at SDL (Sample Detection Limit)		

ab-q211-0321

Page 2 of 12



LABORATORY TEST RESULTS

Job ID : 24060346

Date 6/11/2024

Client Name:

LCRA Environmental Laboratory Services

Attn: Ariana Dean

Project Name:

Q2423291001-Q2423291003

Client Sample ID:

Q2423291001

Job Sample ID:

24060346.01

Date Collected:

06/03/24

Sample Matrix

Water

Time Collected:

10:30

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 4500CN-CG	Cyanide, Amenable	<0.00220	mg/L	1	0.00220	0.01000		U	06/07/24 19:51	SKC
EPA 1631E	CVAFS									
	Mercury	1.0000	ng/L	1	0.042000	0.25000			06/10/24 15:02	BDC

ab-q212-0321

LABORATORY TEST RESULTS										
		Job ID : 24060346						Date 6/11/2024		
Client Name:		LCRA Environmental Laboratory Services						Attn: Ariana Dean		
Project Name:		Q2423291001-Q2423291003								
Client Sample ID:		Q2423291002				Job Sample ID:		24060346.02		
Date Collected:		06/03/24				Sample Matrix:		Water		
Time Collected:		10:30				% Moisture				
Other Information:										
Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 1631E	CVAFS Mercury	<0.042000	ng/L	1	0.042000	0.25000		U	06/10/24 14:57	BDC

ab 0212 0321



LABORATORY TEST RESULTS

Job ID : 24060346

Date 6/11/2024

Client Name:

LCRA Environmental Laboratory Services

Attn: Ariana Dean

Project Name:

Q2423291001-Q2423291003

Client Sample ID:

Q2423291003

Job Sample ID:

24060346.03

Date Collected:

06/03/24

Sample Matrix

Water

Time Collected:

10:30

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 615	Chlorinated Herbicides									
	2,4,5-TP	<0.09	ug/L	1.00	0.09	0.10		U	06/07/24 20:11	MQ
	2,4-D	<0.07	ug/L	1.00	0.07	0.09		U	06/07/24 20:11	MQ
	DCPAA(surr)	88	%	1.00		38-120			06/07/24 20:11	MQ

ab-q212-0321

QUALITY CONTROL CERTIFICATE



Job ID : 24060346

Date : 6/11/2024

Analysis : Cyanide, Amenable Method : SM 4500CN-CG Reporting Units : mg/L
QC Batch ID : Qb240610113 Created Date : 06/07/24 Created By : Srijan
Samples in This QC Batch : 24060346.01
Sample Preparation : PB24061048 Prep Method : SM 4500CN-CG Prep Date : 06/07/24 18:40 Prep By : Srijan

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Cyanide, Amenable	57-12-5	< MDL	mg/L	1	0.01	0.00217		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Cyanide, Amenable	0.1	0.101	101	0.1	0.099	99	2	20	83-116	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24060346

Date : 6/11/2024

Analysis : CVAFS Method : EPA 1631E Reporting Units : ng/L
QC Batch ID : Qb240610124 Created Date : 06/10/24 Created By : BChristopher
Samples in This QC Batch : 24060346.01,02
Digestion : PB24061053 Prep Method : EPA 1631E Prep Date : 06/08/24 18:00 Prep By : BChristopher

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MDL	MDL	Qual
Mercury	7439-97-6T	< MDL	ng/L	1	0.25	0.0419	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	5	4.37	87.4	5	4.82	96.4	9.8	24	77-123	

QC Type: MS and MSD

QC Sample ID: 24053453.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	1.87	5	6.08	84.2	5	6.90	101	12.6	24	71-125	

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 24060346

Date : 6/11/2024

Analysis : Chlorinated Herbicides

Method : EPA 615

Reporting Units : ug/L

QC Batch ID : Qb24061041

Created Date : 06/07/24

Created By : mqiao

Samples in This QC Batch : 24060346.03

Extraction :

PB24060752

Prep Method : EPA 615

Prep Date : 06/07/24 13:00

Prep By : VRodriguez

QC Type: Method Blank

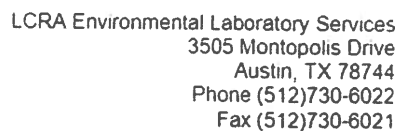
Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
2,4,5-TP	93-72-1	< MDL	ug/L	1.00	0.095	0.089		
2,4-D	94-75-7	< MDL	ug/L	1.00	0.094	0.072		
DCPAA(surr)	19719-28-9	95	%	1.00				

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2,4,5-TP	3.804	3.63	95.4	3.804	3.86	102	6.1	32	35-125	
2,4-D	3.76	3.63	96.6	3.76	4.03	107	10.3	29	29-124	

ab-q213-0321

Refer to the Definition page for terms.



08/04/2024 LCRA Environmental Lab AMB

Results Requested By:

Monday, June 3, 2024 3:10:55 PM
Page 1 of 2

Page 9 of 12

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LCRA Chain of Custody

Document: 45521649 - HBN 154574

Chain of Custody - Required Limits

Document: 45521649 - HBN 154574

Method	Analyte	Stat	LOD	RL	MCL	LOQ Check Standard Required?
E1631 Low Level Mercury	Mercury Total					No
E615 Herbicides	2,4,5-TP		.1 ug/L	.25 ug/L		No
E615 Herbicides	2,4-D		.2 ug/L	.5 ug/L		No
SM4500-CN-G, Amenable Cyanide	Cyanide Amenable		.005 mg/L	.02 mg/L		No

Monday, June 3, 2024 3:10:55 PM
Page 2 of 2

POWERED BY
HORIZON
LABORATORY

Page 10 of 12

ORIGIN ID:AUSA (512) 730-6022
SAMPLE RECEIVING
3505 MONTOPOLIS DRIVE
LCRA-ENVIRONMENTAL LAB ONLY
AUSTIN, TX 78744
UNITED STATES US

SHIP DATE: 03JUN24
ACTWGT: 10.00 LB
CAD: 280003951/NET4730
BILL SENDER

TO AMANDA SHUTE
A&B LABS
10100 EAST FWY STE 100
HOUSTON TX 77029
REF (713) 453-6060
PO DEPT

FedEx
Express
E

TRK# 7766 7734 8736
0201

TUE - 04 JUN 10:30A
PRIORITY OVERNIGHT

43 HBYA
TX-US 77029 IAH

22 PM

Sample Condition Checklist



A&B JobID : 24060346		Date Received : 06/04/2024		Time Received : 10:10AM	
Client Name : LCRA Environmental Laboratory Services					
Temperature : 1.3°C		Sample pH : >12 CN			
Thermometer ID : IR7		pH Paper ID : 115063			
Preservative :		Lot # :			
	Check Points				Yes No N/A
1.	Cooler Seal present and signed.				X
2.	Sample(s) in a cooler.				X
3.	If yes, ice in cooler.				X
4.	Sample(s) received with chain-of-custody.				X
5.	C-O-C signed and dated.				X
6.	Sample(s) received with signed sample custody seal.				X
7.	Sample containers arrived intact. (If No comment)				X
8.	Matrix: ☒ Water ☐ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other				
9.	Samples were received in appropriate container(s)				X
10.	Sample(s) were received with Proper preservative				X
11.	All samples were tagged or labeled.				X
12.	Sample ID labels match C-O-C ID's.				X
13.	Bottle count on C-O-C matches bottles found.				X
14.	Sample volume is sufficient for analyses requested.				X
15.	Samples were received with in the hold time.				X
16.	VOA vials completely filled.				X
17.	Sample accepted.				X
18.	Has client been contacted about sub-out				X

Comments : Include actions taken to resolve discrepancies/problem:

CN: NaOH. ~DG 6/4/24

Brought by : FedEx

Received by : DGonzalez

Check in by/date : DGonzalez / 06/04/2024

ab-s005-1123

Phone : 713-453-6060

www.ablabs.com

Page 12 of 12

LCRA Environmental Laboratory Services
Request for Analysis Chain-of-Custody Record

LCRA - Environmental Lab Phone (512) 730-6022 or 1-800-776-5272
3505 Montopolis Dr Fax (512) 730-6021
Austin TX 744 https://els.lcra.org



Lab ID: **02423291**
Client PO:
Invoice to: J HARRY
KINGSLAND MUD
PO BOX 748
Kingsland TX 78639

Project: **KINGS AND MUD PERMIT SUB** Client: **KINGSLAND MUD**
Collector: Contact:
Event#: **1708112** Phone:

Report to: J HARRY
KINGSLAND MUD
PO BOX 748
Kingsland TX 78639

Sample ID *	Collected		Matrix*	COMPOSITE Y/N	FILTERED Y/N	Containers										Requested Analysis *									
	Date*	Time HH:MM*				1LAGHSO4	1LAGU	1LPNOH	250PHCI	250PHNO3	250PU	40MCV	40MVHCL	S-3500-CRD	S-420.1AM	S-4500-ACN	S-D7065-06	S-E1631	S-E1657	S-E604.1	S-E608.3	S-E615	S-E617	S-E624.1	S-E625.1
1	Effluent	6-3-24 10:10 AM	AQ			1	1	1	1	1				X	X	X		X							
2	TB Hg	6-3-24 10:10 AM	AQ						1									X							
3	FB Hg	6-3-24 10:10 AM	AQ						1									X							
4	Effluent	6-3-24 10:10 AM	AQ			2	1					3	2				X	X	X	X	X	X	X	X	X

No.	Relinquished By	Date/Time	Received By	Date/Time	Cooler Temp (°C):				Client Special Instructions
					TB	Obs	CF	Corr	
1	Robert Delgado	6/3/24/13:26			12.6	0.8	0.0	0.5	
2									
3									

Note: Relinquishing sample(s) and signing the COC, client agrees to accept and is bound by the ELS Standard Terms and Conditions. All fields with an asterisk (*) are required to be completed.





LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

**LCRA Environmental Laboratory Services
Request for Analysis Chain-of-Custody Record**

LCRA - Environmental Lab Phone (512) 730-6022 or 1-800-776-5272
3505 Montopolis Dr Fax: (512) 730-6021
Austin, TX 78744 <https://els.lcra.org>



Project:	KINGSLAND MUD PERMIT SUB	Client:	KINGSLAND MUD
Collector:		Contact:	
Event#:	1708112	Phone:	

Report to: J. HERRY
KINGSLAND MUD
P.O. BOX 748
Kingsland, TX 78639

Lab ID#: Q2423291
Client PO:
Invoice to: J. HERRY KINGSLAND MUD P.O. BOX 748 Kingsland, TX 78639

Sample ID *	Collected		Matrix * AQ = Aqueous DW = Drinking Water S = Solid T = Tissue	COMPOSITE Y/N	FILTERED Y/N	Containers								Requested Analysis *																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Date*	Time HH:MM*				1LAGHSO4	1LAGU	1LPNOH	250PHCI	250PHNO3	250PU	40MCV	40MVHCL	S-E632																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3	FB Hg	6-3-24	10:30	AQ							1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

Transfers	Relinquished By	Date/Time	Received By	Date/Time	Cooler Temp (°C):				Client Special Instructions
1	<i>[Signature]</i>	6-3-24 13:26			T#	Obs	CF	Corr	
2									
3			<i>S. Ortega</i>	6/3/24 13:26	16	0.8	0.0	0.5	Lab Use Only:
Note: Relinquishing sample(s) and signing the COC, client agrees to accept and is bound by the ELS Standard Terms and Conditions. All fields with an asterisk (*) are required to be completed.									



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021



LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

Document: 45521649 - HBN 154574

Results Requested By:

Report To			Subcontract To		Requested Analysis									
ICRA Environmental Laboratory Services 3505 Montopois Drive Austin, TX 78744 Phone (512) 730-8022 Fax (512) 730-6021 Email environmental_lab@icra.org			SHANTALL CARPENTER A & B LABS 10100 E. FREIGHTWAY, SUITE 100 HOUSTON, TX 77029 Phone (713) 451-6060											
Item	Lab ID	Collect Date/Time	Matrix	Preserved Containers										LAB USE ONLY
				HCL COOL RC	NaOH	TCOOL RC		E-1631 Low Level Mercury	E-15 Herbicides	SW84600 CHG	Amenable Cynides			
1	Q242329-1001	06/03/2024 10:30	Aqueous	1				X		X				
2	Q242329-1002	06/03/2024 10:30	Aqueous	1				X		X				
3	Q242329-1003	06/03/2024 10:30	Aqueous		2				X					
Report			Electronic Data Deliverables				Comments							
☐ Standard (Results Only) ☐ Standard with Batch QC ☐ CLP ☐ Other _____			☐ Stage 2A ☐ Stage 2B ☐ Stage 3 ☐ Other _____				THE SUBCONTRACTOR NOTED ON THIS DOC IS THE ONLY LAB AUTHORIZED TO ANALYZE THE SUBMITTED SAMPLES. ANY DEVIATION FROM THIS PROTOCOL REQUIRES WRITTEN AUTHORIZATION FROM ELS MANAGEMENT.							
Preservative			Transfers	Released By	Date/Time	Received By	Date/Time							
COOL RC + Cool to +10 degrees F if none			1	S. O'Leary	6/3/24	17:00								
			2											
			3											
			4											
			5											

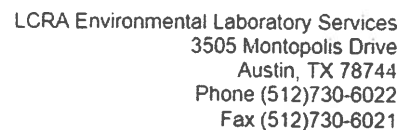
LCRA Chain of Custody

Document: 45521649 - HBN 154574

Chain of Custody - Required Limits

Document: 45521649 - HBN 154574

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
E1631 Low Level Mercury	Mercury Total					No
E615 Herbicides	2,4,5 TP		1 ug/l	25 ug/l		No
E815 Herbicides	2,4 D		2 ug/l	5 ug/l		No
SM4500-CN-C, Amenable Cyanide	Cyanide Amenable		0.05 mg/l	0.2 mg/l		No

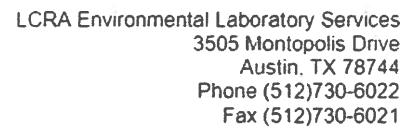


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LCRA Chain of Custody

Document: 45521650 - HBN 154575

Document: 45521650 HBN 154575

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
ASTM D7065-06 Nonylphenol	Nonylphenol					No
E1657, Pesticides	Azinphos methyl					No
E1657, Pesticides	Chlorpyrifos					No
E1657, Pesticides	Demeton					No
E1657, Pesticides	Diazinon					No
E1657, Pesticides	Ethyl Parathion					No
E1657, Pesticides	Malathion					No
E420.1 Phenolics, Spectrophot	Phenol					No
E604.1 Hexachlorophene	Hexachlorophene					No
E608.3 Organochlorines, PCBs	4,4 DDD					No
E608.3 Organochlorines, PCBs	4,4 DDE					No
E608.3 Organochlorines, PCBs	4,4 DDT					No
E608.3 Organochlorines, PCBs	Aldrin					No
E608.3 Organochlorines, PCBs	Aroclor-1016					No
E608.3 Organochlorines, PCBs	Aroclor-1221					No
E608.3 Organochlorines, PCBs	Aroclor-1232					No
E608.3 Organochlorines, PCBs	Aroclor-1242					No
E608.3 Organochlorines, PCBs	Aroclor-1248					No
E608.3 Organochlorines, PCBs	Aroclor-1254					No
E608.3 Organochlorines, PCBs	Aroclor-1260					No
E608.3 Organochlorines, PCBs	Chlordane					No

LCRA Chain of Custody

Document: 45521650 - HBN 154575

E608 3 Organochlorines, PCBs	Dieldrin				No
E608 3 Organochlorines, PCBs	Endosulfan I				No
E608 3 Organochlorines, PCBs	Endosulfan II				No
E608 3 Organochlorines, PCBs	Endosulfan sulfate				No
E608 3 Organochlorines, PCBs	Endrin				No
E608 3 Organochlorines, PCBs	Endrin aldehyde				No
E608 3 Organochlorines, PCBs	Heptachlor				No
E608 3 Organochlorines, PCBs	Heptachlor epoxide				No
E608 3 Organochlorines, PCBs	PCH - Total				No
E608 3 Organochlorines, PCBs	Toxaphene				No
E608 3 Organochlorines, PCBs	alpha-BHC				No
E608 3 Organochlorines, PCBs	beta-BHC				No
E608 3 Organochlorines, PCBs	gamma-BHC				No
E608 3 Organochlorines, PCBs	gamma-BHC (lindane)				No
E617	Decol				No
E617	Methoxychlor				No
E617	Mirex				No
E625 1 Base/Neutrals and Acids	1,2-Diphenylhydrazine				No
E625 1 Base/Neutrals and Acids	1,2,4,5-Tetrachlorobenzene				No
E625 1 Base/Neutrals and Acids	1,2,4-Trichlorobenzene				No
E625 1 Base/Neutrals and Acids	1,2-Dichlorobenzene				No
E625 1 Base/Neutrals and Acids	1,3-Dichlorobenzene				No
E625 1 Base/Neutrals and Acids	1,4-Dichlorobenzene				No
E625 1 Base/Neutrals and Acids	2,4,5-Trichlorophenol				No

LCRA Chain of Custody

Document: 45521650 - HBN 154575

E625:1 Base/Neutrals and Acids	2,4,6-Trichlorobenzene	No
E625:1 Base/Neutrals and Acids	2,4-Dichlorophenol	No
E625:1 Base/Neutrals and Acids	2,4-Dimethylphenol	No
E625:1 Base/Neutrals and Acids	2,4-Dinitrophenol	No
E625:1 Base/Neutrals and Acids	2,4-Dinitrotoluene	No
E625:1 Base/Neutrals and Acids	2,6-Dinitrotoluene	No
E625:1 Base/Neutrals and Acids	2-Chloronaphthalene	No
E625:1 Base/Neutrals and Acids	2-Chlorophenol	No
E625:1 Base/Neutrals and Acids	2-Methylphenol (o-Cresol)	No
E625:1 Base/Neutrals and Acids	2-Nitrophenol	No
E625:1 Base/Neutrals and Acids	3,4-Methylphenol (m-Cresol)	No
E625:1 Base/Neutrals and Acids	3,1-Dichlorobenzene	No
E625:1 Base/Neutrals and Acids	4-b-Dinitro-2-methylphenol	No
E625:1 Base/Neutrals and Acids	4-Bromophenyl phenyl ether	No
E625:1 Base/Neutrals and Acids	4-Chloro-3-methylphenol	No
E625:1 Base/Neutrals and Acids	4-Chlorophenyl phenyl ether	No
E625:1 Base/Neutrals and Acids	4-Nitrophenol	No
E625:1 Base/Neutrals and Acids	Acenaphthene	No
E625:1 Base/Neutrals and Acids	Acenaphthylene	No
E625:1 Base/Neutrals and Acids	Anthracene	No
E625:1 Base/Neutrals and Acids	Benzo[a]pyrene	No
E625:1 Base/Neutrals and Acids	Benzo[a]anthracene	No
E625:1 Base/Neutrals and Acids	Benzo[a]pyrene	No

LCRA Chain of Custody

Document: 45521650 - HBN 154575

E625.1 Base/Neutrals and Acids	Benzo(b)fluoranthene				No
E625.1 Base/Neutrals and Acids	Benzo(g,h,i)perylene				No
E625.1 Base/Neutrals and Acids	Benzo(k)fluoranthene				No
E625.1 Base/Neutrals and Acids	Bis(2-Chloroethoxy)methane				No
E625.1 Base/Neutrals and Acids	Bis(2-Chloroethyl)ether				No
E625.1 Base/Neutrals and Acids	Bis(2-Chloroisopropyl)ether				No
E625.1 Base/Neutrals and Acids	Bis(2-Ethylhexyl)phthalate				No
E625.1 Base/Neutrals and Acids	Butyl benzyl phthalate				No
E625.1 Base/Neutrals and Acids	Chrysene				No
E625.1 Base/Neutrals and Acids	Cresols				No
E625.1 Base/Neutrals and Acids	D-n-butyl phthalate				No
E625.1 Base/Neutrals and Acids	D-n-octyl phthalate				No
E625.1 Base/Neutrals and Acids	Dibenz(a,h)anthracene				No
E625.1 Base/Neutrals and Acids	Diethyl phthalate				No
E625.1 Base/Neutrals and Acids	Dimethyl phthalate				No
E625.1 Base/Neutrals and Acids	Fluoranthene				No
E625.1 Base/Neutrals and Acids	Fluorene				No
E625.1 Base/Neutrals and Acids	Hexachlorobenzene				No
E625.1 Base/Neutrals and Acids	Hexachlorobutadiene				No
E625.1 Base/Neutrals and Acids	Hexachlorocyclopentadiene				No
E625.1 Base/Neutrals and Acids	Hexachloronaphene				No
E625.1 Base/Neutrals and Acids	Indeno(1,2,3-cd)pyrene				No
E625.1 Base/Neutrals and Acids	Naphthalene				No

LCRA Chain of Custody

Document: 45521650 - HBN 1545/5

E625 - Base/Neutrals and Acids	Naphthalene				No
E625 - Base/Neutrals and Acids	Nitrobenzene				No
E625 - Base/Neutrals and Acids	Pentachlorobenzene				No
E625 - Base/Neutrals and Acids	Pentachlorophenol				No
E625 - Base/Neutrals and Acids	Phenanthrene				No
E625 - Base/Neutrals and Acids	Phenol				No
E625 - Base/Neutrals and Acids	Pyrene				No
E625 - Base/Neutrals and Acids	Pyridine				No
E625 - Base/Neutrals and Acids	n-Nitrosodimethylamine				No
E625 - Base/Neutrals and Acids	n-Nitrosodipropylamine				No
E625 - Base/Neutrals and Acids	n-Nitrosodimethylamine				No
E625 - Base/Neutrals and Acids	n-Nitrosodipropylamine				No
F632 Carbaryl Dueton	Carbaryl (Sevin)				No
F632 Carbaryl Dueton	Dueton				No

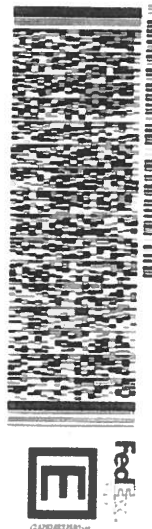


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3505 Montopolis Drive
Austin, TX 78744
Phone (512)730-6022
Fax (512)730-6021

6/3/24 2:23 PM

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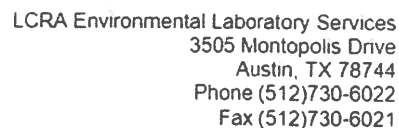
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3505 MONTOPOLIS DRIVE
LCRA ENVIRONMENTAL LAB ONLY
AUSTIN TX 78744
UNITED STATES US
TO: GARRET RYAN
SPL LABS-KILGORE
2600 DUDLEY RD
KILGORE TX 75662
(907) 366-0351
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Document: 45521648 - HBN 154573

Results Requested By:

Chain of Custody - Required Limits

LCRA Chain of Custody

Document: 45521648 - HBN 154573

Document: 45521648 - HBN 154573

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
E624 : Purgeables	1,1,1-Trichloroethane					No
E624 : Purgeables	1,1,2,2-Tetrachloroethane					No
E624 : Purgeables	1,1,2-Trichloroethane					No
E624 : Purgeables	1,1-Dichloroethane					No
E624 : Purgeables	1,1-Dichloroethene					No
E624 : Purgeables	1,2-Dibromoethane					No
E624 : Purgeables	1,2-Dichlorobenzene					No
E624 : Purgeables	1,2-Dichloroethane					No
E624 : Purgeables	1,2-Dichloropropane					No
E624 : Purgeables	1,3-Dichlorobenzene					No
E624 : Purgeables	1,4-Dichlorobenzene					No
E624 : Purgeables	2-Butanone					No
E624 : Purgeables	2-Chloroethyvinyl ether					No
E624 : Purgeables	Acrolein					No
E624 : Purgeables	Acrylonitrile					No
E624 : Purgeables	Benzene					No
E624 : Purgeables	Bromodichloromethane					No
E624 : Purgeables	Bromoform					No
E624 : Purgeables	Bromomethane					No
E624 : Purgeables	Carbon tetrachloride					No
E624 : Purgeables	Chlorobenzene					No
E624 : Purgeables	Chloroethane					No

LCRA Chain of Custody

Document: 45521648 HBN 154573

E624 1 Purgeables	Chloroform				No
E624 1 Purgeables	Dibromomethane				No
E624 1 Purgeables	Dibromochloromethane				No
E624 1 Purgeables	Ethyl Benzene				No
E624 1 Purgeables	Methylene chloride				No
E624 1 Purgeables	Tetrachloroethene				No
E624 1 Purgeables	Toluene				No
E624 1 Purgeables	Total Trihalomethanes				No
E624 1 Purgeables	Trichloroethene				No
E624 1 Purgeables	Vinyl chloride				No
E624 1 Purgeables	cis-1,3-Dichloropropene				No
E624 1 Purgeables	trans-1,2-Dichlorobenzene				No
E624 1 Purgeables	trans-1,3-Dichloropropene				No

6/3/24 2:21 PM

FedEx Ship Manager Print Your Labels

ORIGIN: AUSA (512) 730-6022 SAMPLE RECEIVING 3505 MONTOPOLIS DRIVE LCRA ENVIRONMENTAL LAB ONL AUSTIN TX 78744 UNITED STATES US	SHIP DATE: 07 JUN 24 ACTING: 7:00 LB C/D: 2900030510/E 14130 DHL SERVICE
TO RECEIVING DHL ANALYTICAL 2300 DOUBLE CREEK DRIVE ROUND ROCK TX 78664 (512) 388-8272	
TRK# 7766 7730 1944 0201	TUE - 04 JUN 10:30A PRIORITY OVERNIGHT
44 BSMA TX-US AUS 78664	
	

After printing this label

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer
2. Fold the printed page along the horizontal line
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned

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

<https://www.fedex.com/shipping/shipAction.handle?method=doContinue>

H08711

LCRA Chain of Custody

Document: 45521647 - HBN 154572

Results Requested By:

Report To		Subcontract To		Requested Analysis									
LCRA Environmental Laboratory Services 3505 Montopolis Drive Austin, TX 78744 Phone (512)730-6022 Fax (512)730-6021 Email environmental.lab@lcra.org		AQUATECH LABORATORIES AQUATECH LABORATORIES 3512 MONTOPOLIS DR Austin, TX 78744 Phone 512-301-9559											
Item	Lab ID	Collect Date/Time	Matrix	Preserved Containers					LAB USE ONLY				
1	Q2423281001	06/03/2024 10:30	Aqueous	COOL BC	250 HNE								

Report	Electronic Data Deliverables	Comments																														
☐ Standard (Results Only) ☐ Standard with Batch QC ☐ CLP ☐ Other:	☐ Stage 2A ☐ Stage 2B ☐ Stage 3 ☐ Other:	THE SUBCONTRACTOR NOTED ON THIS COC IS THE ONLY LAB AUTHORIZED TO ANALYZE THE SUBMITTED SAMPLES. ANY DEVIATION FROM THIS PROTOCOL REQUIRES WRITTEN AUTHORIZATION FROM ELS MANAGEMENT. Please analyze for Hex Cr, Total Cr and Trivalent Cr																														
Preservative COOL BC - Cool to +16 degrees C S2/S2 CT CLT 070448 (BEB)	<table border="1"> <thead> <tr> <th>Transfers</th> <th>Released By</th> <th>Date/Time</th> <th>Received By</th> <th>Date/Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>John Doe</td> <td>6/3/24 1442</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>John Doe</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>John Doe</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>John Doe</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>John Doe</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Transfers	Released By	Date/Time	Received By	Date/Time	1	John Doe	6/3/24 1442			2	John Doe				3	John Doe				4	John Doe				5	John Doe				
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1	John Doe	6/3/24 1442																														
2	John Doe																															
3	John Doe																															
4	John Doe																															
5	John Doe																															

* HNO3 container brought in by Santiago Ortega @ 6/3/24 - 15:22
 received 6/3/24 15:22 Brianna Burke 17018 OCT CLT 070448 (BEB)

HORIZON

H018711

LCRA Chain of Custody _____

Document: 45521647 - HBN 154572

Chain of Custody - Required
Limits _____

Document: 45521647 - HBN 154572

Method	Analyte	Storet	LOD	RL	MCL	LOQ Check Standard Required?
SM3500-Cr D, Hexavalent Cr	Hexavalent Chromium		1 ug/L	3 ug/L		No

LCRA Environmental Laboratory Services

HORIZON

End of Report

Attachment 7
Technical Report
Section 9 – Permit to Process WWTP Sludge



TPDES PERMIT NO.
WQ0004962000
[For TCEQ Office Use Only:
EPA ID No. TXL 005021]

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

This is a renewal that replaces
TPDES Permit No.
WQ0004962000 issued on
February 23, 2017.

PERMIT TO PROCESS WASTEWATER TREATMENT PLANT SLUDGE
under provisions of Chapter 26 of the Texas Water Code
Chapter 361 of Health and Safety Code, Chapter 312 of Texas Administrative Code

I. Name of Permittee:

Kingsland Municipal Utility District
P. O. Box 748
Kingsland, Texas 78639

II. Nature of Business Producing Waste: Processing domestic Wastewater Treatment Plant (WWTP) sludge (SIC Code 4952).

III. General Description and Location of Waste Treatment Facility:

Description: The WWTP sludge processing facility is an approximate 13,000 square feet reinforced concrete lined composting pad and will process sludge generated by the Kingsland Municipal Utility District Wastewater Treatment Plant (TPDES Permit No. WQ0011549001). The WWTP sludge is aerobically composted using piles or windrows to achieve pathogen reduction and vector attraction reduction that meets Class A biosolids marketing and distribution requirements for land application. Sludge or biosolids material that does not meet Class A biosolids standards will be hauled to a TCEQ permitted landfill or a TCEQ permitted Class B biosolids beneficial land application site.

Location and Drainage Basin: The processing facility is located approximately two miles northeast of the intersection of Farm-to-Market Road 1431 and Farm-to-Market Road 2545, off of Williamette Drive, otherwise known as Dump Road, approximately 0.3 mile west of Farm-to-Market Road 2545, in Kingsland, Llano County, Texas 78639. (See Attachment A.) The processing facility will be located in the drainage area of Lake Lyndon B. Johnson in Segment No. 1406 of the Colorado River Basin.

The permittee is authorized to process, store, and dispose of wastes in accordance with the limitations, requirements, and other conditions set forth herein. This permit is granted subject to the rules of the Commission and other Orders of the Commission and laws of the State of Texas. Nothing in this permit exempts the permittee from compliance with applicable rules and regulations of the TCEQ. This permit is issued under the Texas Pollutant Discharge Elimination System (TPDES) program. The permittee must handle and dispose of WWTP sludge in accordance with all applicable state and federal regulations to protect public health and the environment. This permit does not authorize any invasion of personal rights nor any violation of federal, state or local laws or regulations.

This permit and the authorization contained herein shall expire at midnight five years from the date issued.

ISSUED DATE: July 14, 2022

A handwritten signature in black ink, appearing to be "T. G. Baker", written over a horizontal line.

For the Commission

IV. CONDITIONS OF THE PERMIT:

No discharge of pollutants into water in the state is authorized by this permit.

Character: Domestic WWTP sludge treatment facility.

V. SLUDGE USE AND DISPOSAL PROVISIONS:

A. General Requirements

1. The permittee is authorized to accept digested and dewatered domestic WWTP sludge which meets the pollutant concentration limits in 30 Texas Administrative Code (TAC) § 312.43(b)(1 or 3). No hazardous, toxic, or radioactive waste, will be accepted, stored or processed at this site. Industrial solid waste may be accepted, stored or processed at this site only with the prior written approval of the Executive Director.
2. The permittee is also authorized to compost WWTP sludge with the addition of clean wood waste, yard waste or any other Executive Director approved industrial solid waste as a bulking agent. The permittee is also authorized to store WWTP sludge, bulking agents, and finished product.
3. The compost pad area, sludge delivery area, bulking agent storage area and finished product storage area shall be isolated from stormwater run-on generated from the 25-year, 24-hour rainfall by berms or diversion terraces. The permittee shall not take any action which will divert rainfall runoff onto the property of adjacent landowners without the permission of such landowners. Any waters coming in contact with feedstock and in-process materials shall be considered contaminated and will be delivered to the Kingsland Municipal Utility District Wastewater Treatment Plant (TCEQ Permit WQ0011549001).
4. Any leachate produced during the composting process or any other contaminated water that is generated, such as washdown water, will be collected in a concrete lined collection basin within the compost area and delivered to the Wastewater Treatment Plant for treatment.
5. All solid waste materials resulting from cleaning operations as well as the sludge deposited in waste control facilities and drainage ditches shall be disposed of in a manner such that contamination of surface waters cannot occur. All waste shall be disposed of in a manner such that contamination of surface and ground waters is prevented and such that nuisance conditions, such as insect infestations or objectionable odors are controlled. Any areas on which solid waste, prior to achieving Class A biosolids standards that are stored shall be isolated by dikes, terraces, or terrain to prevent the discharge of any contaminated runoff into waters in the State of Texas.
6. All necessary steps shall be taken in the composting area and storage areas to protect groundwater from contamination.
7. The facility shall be located at least 500 feet from all public water wells and at least 150 feet from private water wells.

8. The permittee has submitted sufficient evidence of a nuisance odor prevention plan in accordance with 30 TAC § 309.13(e). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d).
9. The permittee shall employ at least one TCEQ certified compost operator within six months from the establishment of the compost certification program. A TCEQ certified compost operator shall routinely be on-site during the hours of operation.
10. The permittee shall operate the composting process in a functionally aerobic manner. The permittee shall operate the facility in a manner so as to minimize nuisance conditions in accordance with Chapters 341 and 381 of the Texas Health and Safety Code and Chapter 26 of the Texas Water Code.
11. The permittee is authorized to market and distribute digested and composted biosolids to the public. Marketing and Distribution of the biosolids shall be in accordance with the following provisions:
 - a. The biosolids derived product shall not exceed the metal concentrations listed in 30 TAC §312.43(b)(3).
 - b. The permittee shall handle and dispose of finished compost product in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations to protect public health and the environment from any reasonable anticipated adverse effects due to any toxic pollutants which may be present.
 - c. Biosolids shall be tested annually in accordance with the method specified in 40 CFR Part 261, Appendix II [Toxicity Characteristic Leaching Procedure (TCLP)] or other method, which receives the prior approval of the TCEQ. Biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate that the biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the Industrial and Hazardous Waste Division of the TCEQ and the Regional Manager of the appropriate TCEQ regional office within 7 days after failing the TCLP test. The report shall contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Industrial and Hazardous Waste Division (MC 126), TCEQ, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Water Quality Division (MC 150) and the TCEQ Regional Office (Region 11) by September 30th of each year.

B. Marketing and Distribution Management Practices

1. All compost derived materials or materials sold or given away in bulk, bag or other container for application to the land shall meet the metal concentrations in the table below:

TABLE 3 - METAL CONCENTRATIONS

Pollutant	Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	monitor
Nickel	420
Selenium	36
Zinc	2800

* Dry weight basis

2. All compost derived materials or materials sold or given away in bulk, bag or other container for application to the land shall meet the Class A biosolids pathogen requirements in 30 TAC § 312.82(a) and one of the vector attraction reduction requirements in 30 TAC 312.83(b)(1) - 312.83(b)(8).
3. The permittee shall provide each person with instructions containing information, restrictions, and recommendations on the use of the biosolids product. At a minimum the following information should be provided:
 - (a) identification of the product;
 - (b) certification that the product complies with the TCEQ requirements for the recommended use of the product; and
 - (c) recommended uses to include appropriate application rate, types of vegetation for which is suitable, and any restrictions on its use.
4. The moisture content of the biosolids shall be less than 50%.
5. Compost product may be stored in an uncovered area isolated from stormwater run-on as described in Section V.A, for a period not to exceed 24 months.

6. The biosolids derived material's constituent levels shall be monitored for the following parameters:

Parameter	Frequency
pH (S.U.)	once/quarter
Total Arsenic (mg/kg)	once/quarter*
Total Cadmium (mg/kg)	once/quarter*
Total Chromium (mg/kg)	once/quarter*
Total Copper (mg/kg)	once/quarter*
Total Lead (mg/kg)	once/quarter*
Total Mercury (mg/kg)	once/quarter*
Total Molybdenum (mg/kg)	once/quarter*
Total Nickel (mg/kg)	once/quarter*
Total Selenium (mg/kg)	once/quarter*
Total Zinc (mg/kg)	once/quarter*
Total PCBs (ppm)	once/year
Potassium (mg/kg)	once/quarter
Phosphorus (mg/kg)	once/quarter
Ammonia Nitrogen (mg/kg)	once/quarter
Total Nitrogen (mg/kg)	once/quarter
Nitrate Nitrogen (mg/kg)	once/quarter

- a. The pH shall be analyzed by the electronic method in "Test Methods for Evaluating Solid Waste", EPA SW 846, 40 CFR 260.11. Method 9040 (or promulgated revision) is appropriate for determining pH.
- b. Analysis for metals and PCB's in WWTP sludge shall be performed according to appropriate methods outlined in "Test Methods for Evaluating Solid Waste", EPA SW 846.

* If the permittee produces greater than 1,500 dry tons per year, the monitoring frequency increases from once/quarter to once/60 days.

The composted derived material must meet either: the density of fecal coliform in the WWTP sludge shall be less than 1,000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. Bacteria in the WWTP sludge shall be less than three MPN for four grams of total solids (dry weight basis) at the time the WWTP sludge is used or disposed. This shall be monitored at the frequency of once/quarter unless the amount generated exceeds 1,500 dry tons per year. If the amount generated exceeds 1,500 dry tons per year, then the monitoring will be once/60 days.

VI. RECORD KEEPING AND REPORTING REQUIREMENTS FOR COMPOSTED WWTP BIOSOLIDS.**A. Record Keeping Requirements**

The documents must be retained on-site at the same location as other TCEQ records. The person who prepares processed bulk biosolids must develop the following information and must retain the information on-site for five years. If the permittee supplies the biosolids to another person who land applies the biosolids, the permittee must notify the land applier of the requirements for record keeping found in 30 TAC §312.47 for persons who land apply.

1. The concentration (mg/kg) in the biosolids of each pollutant listed in Table 3 above must be verified through laboratory analyses and all records pertaining to the tests (including the analytical reports and quality control reports) must be maintained.
2. A description of how the Class A pathogen reduction requirements are met; and
3. A description of how the vector attraction reduction requirements are met.
4. The amount of WWTP biosolids processed (dry weight basis).
5. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC §312.47(a)(4)(A)(ii) or 30 TAC §312.47(a)(5)(A)(ii), as applicable to the permittee's specific sludge treatment activities.

The above records must be maintained on-site and updated on at least a monthly basis when appropriate. The above records must be made available to the TCEQ upon request.

B. Reporting Requirements

The permittee must report annually to the TCEQ Regional Office (MC Region 11) and to the Land Application Team (MC150) of the Water Quality Division, by September 30th (report period September 1st of previous year through August 31st of current year) of each year the information from the records described above in VI.A.

1. Amount of biosolids (tons dry weight) marketed and distributed.
2. Date(s) of operation.
3. Identity and location of persons receiving biosolids in excess of one ton at any one time.
4. Method of final disposal.
5. Toxicity Characteristic Leaching Procedure Test: Pass/Fail attached with certified laboratory results.
6. Level of disinfection attained and a description of all treatment processes used to achieve the vector attraction reduction option(s).
7. Results of tests performed for pollutants found in Provision No. V.B.6 above.
8. Certification statement as described in Provision No. VI.A.5 above.

The above records must be maintained on-site and updated on at least a monthly basis when appropriate. The above records must be made available to the TCEQ upon request.

VII. REQUIREMENTS APPLYING TO ALL SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee must handle and dispose of sludge or biosolids in accordance with 30 TAC Chapters 312 and 330 and all other applicable state and federal regulations. The permittee must ensure that the sludge or biosolids meets the requirements in 30 TAC Chapters 312 and 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates WWTP sludge or biosolids and supplies that WWTP sludge or biosolids to the owner or operator of a Municipal Solid Waste Landfill (MSWLF) for disposal, the permittee must provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. WWTP sludge or biosolids must be tested annually in accordance with the method specified in 40 CFR Part 261, Appendix II (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ. WWTP sludge or biosolids failing this test must be managed according to standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.
- D. Following failure of any TCLP test, the management or disposal of WWTP sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility must be prohibited until such time as the permittee can demonstrate the WWTP sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report must be provided to both the TCEQ Industrial and Hazardous Waste Permits Section (MC 126) and the Manager of TCEQ Regional Office (MC Region 11) within 7 days after failing the TCLP test. The report must contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with standards for the management of hazardous waste. The report must be addressed to: Director, Waste Permits Division (MC 126), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087.
- E. Unless WWTP sludge or biosolids are tested on an annual basis for total polychlorinated biphenyls (PCBs) content by all generators who provide sludge or biosolids to this facility, the facility must test the final product produced at least once per year for PCBs. If any sludge or biosolids with a PCBs content of 50 parts per million or higher is received and treated at the facility, or if the final product tested is shown to have a PCBs content of 50 parts per million or higher, WWTP sludge or biosolids with a PCBs content of 50 parts per million or higher must be disposed of in accordance to the requirements of the Toxic Substances Control Act and the federal regulations for PCBs (40 CFR Part 761) until testing demonstrates that this condition no longer exists.

VIII. REQUIREMENTS APPLYING TO ALL BIOSOLIDS APPLIED AT A TCEQ PERMITTED LAND APPLICATION SITE

- A. The permittee is also authorized to dispose of biosolids derived product at a TCEQ registered or permitted land application site or co-disposal landfill.
1. The permittee shall handle and dispose of biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner which protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present in the biosolids.
 2. In all cases, if the person (permit holder) who prepares the biosolids supplies the biosolids to another person for land application use or to owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the biosolids to assure compliance with these regulations.
 3. The permittee shall give 180 days prior notice to the Executive Director of any change planned in the biosolids disposal practice.
 4. Biosolids shall be tested annually in accordance with the method specified in 40 CFR Part 261, Appendix II (TCLP) or other method, which receives the prior approval of the TCEQ. Biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of WWTP sludge at a facility shall be prohibited until such time as the permittee can demonstrate the WWTP sludge no longer exhibits the hazardous waste characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the Industrial and Hazardous Waste Division of the TCEQ and the Regional Manager of the appropriate TCEQ regional office within 7 days after failing the TCLP Test. The report shall contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Industrial and Hazardous Waste Division (MC 126), TCEQ, P.O. Box. 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Water Quality Division (MC 150), and the TCEQ Regional Office (MC Region 11) by September 30th each year.
 5. Biosolids shall not be applied to the land if the concentration of the metal pollutants exceed the pollutant concentration criteria in 30 TAC Chapter §312.43(b)(1).
 6. The permittee shall monitor the soil- biosolids mixture in accordance with the land application permit issued by the TCEQ.
 7. Biosolids must demonstrate compliance with Class B WWTP biosolids by meeting the following requirement with respect to Pathogens in 30 TAC §312.82(b):

A minimum of seven samples of the biosolids shall be collected at the time the biosolids are land applied during each monitoring episode. The geometric mean of the density of fecal coliform for the samples collected shall be less than either 2,000,000 Most Probable Number per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids.

8. All bulk biosolids that is land applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the vector attraction reduction options in 30 TAC §312.83.
9. A TCLP test must be performed on the newly processed product once per year. Biosolids failing this TCLP must not be land applied, but must be treated and disposed of as hazardous waste.

The processed material must be tested for polychlorinated biphenyls (PCBs) once per year. No Biosolids with a PCB concentration of greater than or equal to 50 ppm may be land applied.

10. Pathogen Control and Vector Attraction Reduction Requirements

All biosolids that are applied to agricultural land, forest, a public contact site, or a reclamation site must meet the compliance requirements of 30 TAC §312.82(b).

All bulk biosolids that are land applied to agricultural land, forest, a public contact site, or a reclamation site must meet the compliance requirements 30 TAC §312.83(a)(1). All bulk biosolids that is placed on an active unit must meet compliance requirement 30 TAC §312.83(a)(3).

Parameters that must be checked to ensure compliance (including metals and those related to pathogen reduction and vector attraction reduction options used) must be monitored at the appropriate frequency shown below, pursuant to 30 TAC §312.46(a)(1):

TABLE 2: MONITORING FREQUENCY

Amount of WWTP biosolids (*) dry tons per 365 day period		Frequency
0	≤ Sludge <290	Once/Year
290	≤ Sludge < 1,500	Once/Quarter
1,500	≤ Sludge < 15,000	Once/60 Days
15,000	≤ Sludge	Once/Month

(*) The amount of bulk biosolids applied to the land (dry weight basis).

11. The management practices in 30 TAC §312.44 must be met if biosolids are land applied.
12. The site restrictions in 30 TAC §312.82(b)(3) must be met if biosolids are land applied.
13. Cumulative metal loading on the soil shall not exceed the parameters of 30 TAC §312.43(b).
14. The person who prepares bulk biosolids material shall develop the following information and shall retain the information on-site for five years. If the permittee supplies the biosolids to another person who land applies the biosolids, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC §312.47 for persons who land apply.
 - a. The concentration (mg/kg) in the biosolids of each pollutant listed in 30 TAC § 312.43(b)(3) and the applicable pollutant concentration criteria (mg/kg), or the

applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate (kg/ha) listed in 30 TAC §312.43(b)(2).

- b. A description of how the pathogen reduction requirements are met (including site restrictions for Class B biosolids, if applicable).
- c. A description of how vector attraction reduction requirements are met.
- d. A description of how the management practices listed above in 30 TAC §312.44 are met.
- e. The following certification statement:

"I certify under penalty of law that the management practices in 30 TAC §312.44 have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

- f. The recommended agronomic loading rate supported from references, as well as the actual agronomic loading rate, shall be retained.

The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request.

- 15. The person who prepares bulk biosolids material shall develop the following information and shall retain the information on-site for five years. If the permittee supplies the biosolids to another person who land applies the biosolids, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.7(a)(5)(A)(ii), as applicable, and to the permittee's specific biosolids treatment activities.
 - b. The location, by street address and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 3 to each site (30 TAC § 312.43(b)(2)).
 - f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request.

16. The permittee shall report annually to the TCEQ Water Quality Division (MC 150), and the TCEQ Regional Office (MC Region 11) by September 30th of each year the following information:
- a. The concentration (mg/kg) in the biosolids of each pollutant listed in 30 TAC § 312.43(b)(1) (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in 30 TAC § 312.43(b)(3), or the applicable pollutant loading rate limit (lbs/acre) listed on 30 TAC § 312.43(b)(2) if it exceeds 90% of the limit.
 - b. The frequency of monitoring listed on Provision 10 which applies to the permittee.
 - c. TCLP results.
 - d. Identity of hauler(s) and the TCEQ transporter number.
 - e. PCB concentration in the biosolids (mg/kg).
 - f. Date(s) of disposal.
 - g. Owner of disposal site(s).
 - h. TCEQ land application site registration or permit number if applicable.
 - i. Amount of biosolids disposal dry weight (lbs/acre) at each disposal site.
 - j. Level of pathogen reduction achieved (Class A or Class B biosolids).
 - k. Pathogen reduction alternative used. Describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how the site restrictions were met (30 TAC § 312.82 (b)(3)).
 - l. Vector attraction reduction alternative used.
 - m. Biosolids Production in dry tons/year.
 - n. Amount of WWTP biosolids land applied in dry tons/year.
 - o. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in 30 TAC § 312.43(b)(2), the permittee shall report the following information as an attachment to the annual reporting form.
 - i. The location, by street address and specific latitude and longitude.
 - ii. The number of acres in each site on which bulk biosolids are applied.
 - iii. The date and time bulk biosolids are applied to each site.
 - iv. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - v. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the TCEQ upon request.

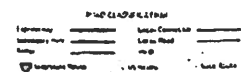
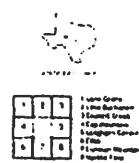
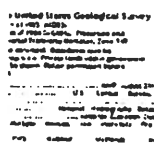
- p. The appropriate certification statements listed in 30 TAC § 312.47, as applicable to the permittee's biosolids treatment activities, shall be attached to the annual reporting form.

The above records shall be maintained and reported to the TCEQ Water Quality Division (MC 150) and the TCEQ Regional Office (MC Region 11) by September 30th of each year. The reports should include information from September 1st of previous year through August 31st of the current year. The permittee shall maintain the above records for five years and shall be made available to the TCEQ upon request.

IX. STANDARD PROVISIONS:

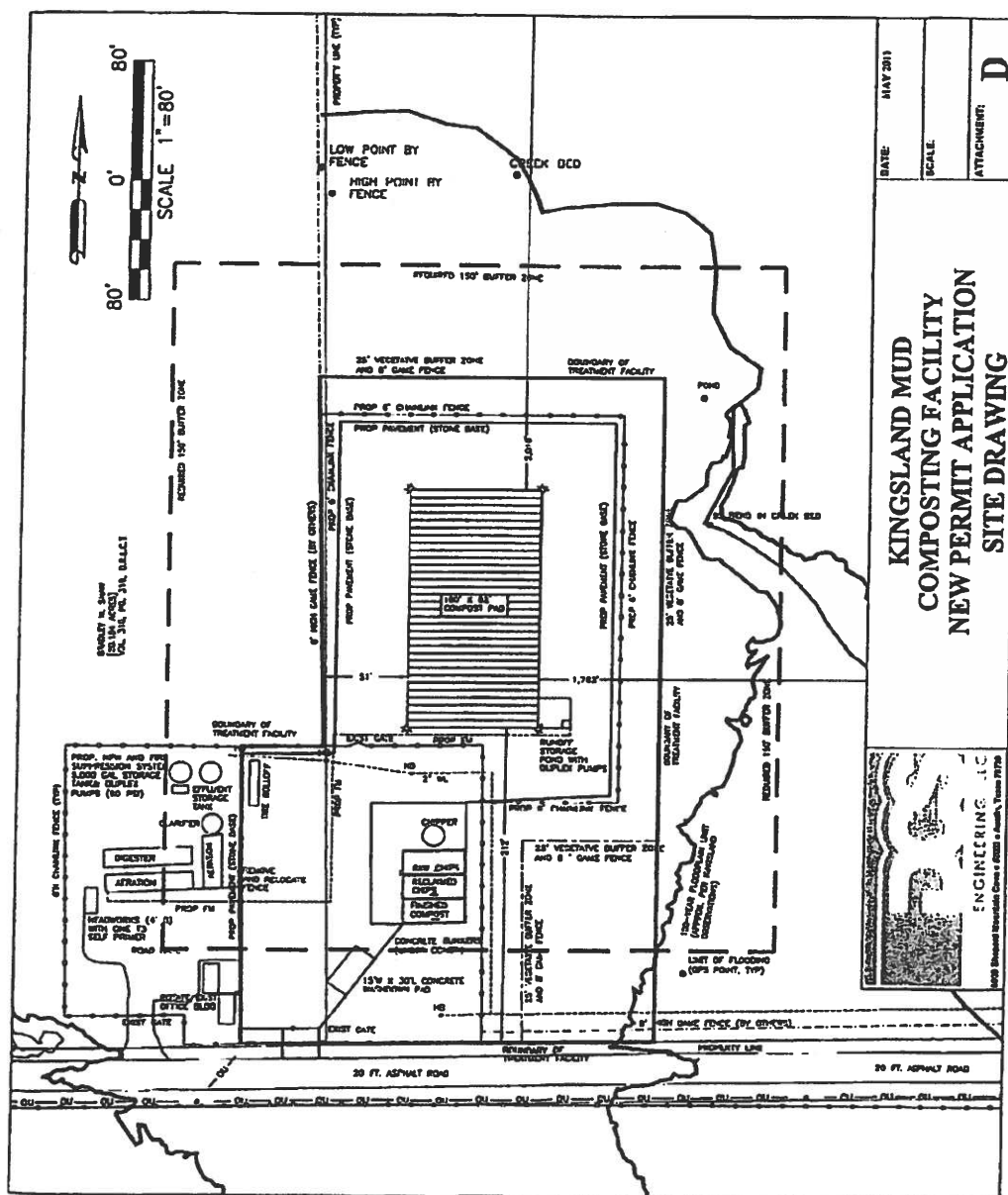
- A. This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.
- B. Unless specified otherwise, any noncompliance which may endanger human health or safety, or the environment must be reported to the TCEQ. Report of such information must be provided orally or by facsimile transmission (FAX) to the TCEQ Regional Office (MC Region 11) within 24 hours of becoming aware of the noncompliance. A written submission of such information must also be provided to the TCEQ Regional Office (MC Region 11) and to the TCEQ Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission must contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- C. Acceptance of this permit constitutes an acknowledgment and agreement that the permittee will comply with all the terms, provisions, conditions, limitations and restrictions embodied in this permit and with the rules and other Orders of the Commission and the laws of the State of Texas. Agreement is a condition precedent to the granting of this permit.
- D. Prior to any transfer of this permit, Commission approval must be obtained. The Commission should be notified, in writing, of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team in the Water Quality Division (MC 148).
- E. The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit must control.
- F. The permittee is subject to the provisions of 30 TAC Section §305.125.
- G. Any proposed site changes, addition of land area, or expansion in the capacity which have not been addressed by the terms of this permit must be authorized in accordance with the TCEQ permit amendment or modification rules 30 TAC §305.
- H. According to 30 TAC §305.125(10) inspection and entry must be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28 and the Texas Solid Waste Disposal Act.

The map illustrates the Kingsland MUD Property, which is 290 acres in size. A dashed circle indicates a 1-mile radius centered on the KMUD Composting Facility. Other features shown include Spring Fed Quarry Lake, Ongoing Residential Housing Developments along Lake LBJ, and the Kingsland MUD Existing WASTP. The map also shows the Kingsland area and the Kingsland MUD Property (290 acres) label.



KINGSLAND, TX
2219

Attachment A
(2 of 2)



Candice Calhoun

From: Jason Jones <JasonJ@jones-heroy.com>
Sent: Friday, August 30, 2024 3:33 PM
To: Candice Calhoun; jhorry@kingslandmud.com
Cc: Stacy Brack
Subject: RE: Application to Renew Permit No. WQ0011549001 - Kingsland Municipal Utility District; Kingsland MUD WWTP
Attachments: wq0011549001-nod1.pdf; Municipal Discharge Renewal Spanish NORI_Translated.docx
Follow Up Flag: Follow up
Flag Status: Completed

Candice,

We have reviewed and confirmed the public notice information listed as Item 1 in the attached letter is correct. Please also find attached the translated public notice requested as Item 2.

Please let us know if you need any additional information.

Jason

Jason S. Jones, P.E.

JONES - HEROY & ASSOCIATES, INC.

2204 South Highway 281, Suite D
Lampasas, TX 76550
Office: 512-556-2300
Cell: 512-694-9490

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, August 27, 2024 4:21 PM
To: jhorry@kingslandmud.com
Cc: Jason Jones <JasonJ@jones-heroy.com>
Subject: Application to Renew Permit No. WQ0011549001 - Kingsland Municipal Utility District; Kingsland MUD WWTP
Importance: High

Good afternoon, Mr. Horry,

The attached Notice of Deficiency (NOD) letter dated **August 27, 2024**, requests additional information needed to declare the application administratively complete. Please send complete response by **September 10, 2024**.

Please let me know if you have any questions.

Regards,

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA RENOVACION

PERMISO NO. WQ0011549001

SOLICITUD. Distrito Municipal de Servicios Públicos de Kingsland, P.O. Box 748, Kingsland, Texas 78639, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011549001 (EPA I.D. No. TX0066010) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 750,000 galones por día. La planta está ubicada en 100 Ingram Street, en la ciudad de Kingsland en el Condado de Llano, Texas. La ruta de descarga es del sitio de la planta directamente al lago Lyndon B. Johnson. La TCEQ recibió esta solicitud el 22 de agosto de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en 100 Ingram Street, Kingsland, en el condado de Llano, Texas, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.435277,30.658333&level=18>

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar **comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los**

comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <http://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión

de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Distrito de servicios públicos municipal de Kingsland a la dirección indicada arriba o llamando al Sr. J Horry, director general, al 325-388-4559.

Fecha de emission: