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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

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

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

City of Huntsville (CN600745566) operates A.J. Brown/Parker Creek Wastewater Treatment Facility (RN101612471), a sequencing batch reactor treatment facility. The facility is located at 94 Parker Creek Road, in Huntsville, Walker County, Texas 77320. This application is for a permit renewal to discharge treated domestic wastewater at an annual average flow not to exceed 4,500,000 gallons per day.

Discharges from the facility are expected to contain 5-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, and *E. coli*. Domestic wastewater is treated by bar screens, mechanical screens, grit removal, flow equalization basins, sequencing batch reactors, chlorine contact basins, dechlorination, post-aeration, aerated solids storage, solids dewatering volute press, and solids drying beds.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS /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.

La ciudad de Huntsville (CN600745566) opera la instalación de tratamiento de aguas residuales de AJ Brown/Parker Creek (RN101612471), una instalación de tratamiento con reactor discontinuo secuencial. La instalación está ubicada en 94 Parker Creek Road, en la ciudad de Huntsville, Condado de Walker, Texas 77320. Esta solicitud es para renovar un permiso para descargar aguas residuales domésticas tratadas con un caudal promedio anual que no exceda los 4.500.000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de 5 días, sólidos suspendidos totales, nitrógeno amoniacal y *E. coli*. aguas residuales domésticas están tratado por rejillas de barras, pantallas mecánicas, eliminación de arena, cuencas de ecualización de flujo, reactores discontinuos secuenciales, cuencas de contacto con cloro, decloración, post-aireación, almacenamiento de sólidos aireados, prensa de voluta para deshidratación de sólidos y lechos de secado de sólidos.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010781003

APPLICATION. City of Huntsville, 1212 Avenue M, Huntsville, Texas 77340, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010781003 (EPA I.D. No. TX0072974) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 4,500,000 gallons per day. The domestic wastewater treatment facility is located at 94 Parker Creek Road, in the city of Huntsville, in Walker County, Texas 77320. The discharge route is from the plant site to an unnamed tributary of Parker Creek; thence to Parker Creek; thence to Harmon Creek; thence to Lake Livingston. TCEQ received this application on February 3, 2025. The permit application will be available for viewing and copying at Huntsville Service Center, lobby, 448 State Highway 75 North, Huntsville, in Walker 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=-95.5125,30.772222&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 City of Huntsville at the address stated above or by calling Mr. Stacy Lawler, Wastewater Superintendent, at 936-294-5763.

Issuance Date: February 14, 2025

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. WQ0010781003

SOLICITUD. La ciudad de Huntsville, 1212 Avenue M, Huntsville, Texas 77340, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010781003 (EPA I.D. No. TX0072974) 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 anual de 4,500,000 galones por día. La planta está ubicada en 94 Parker Creek Road, en la ciudad de Huntsville, en el Condado de Walker, Texas 77320. La ruta de descarga es del sitio de la planta a un afluente sin nombre de Parker Creek; de allí a Parker Creek; de allí a Harmon Creek; de allí al lago Livingston. La TCEQ recibió esta solicitud el 3 de febrero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en el Centro de Servicio de Huntsville, vestíbulo, 448 State Highway 75 North, Huntsville, en el condado de Walker, Texas, antes de la fecha en que se publique este aviso en el periódico. La solicitud, incluidas las actualizaciones y los avisos asociados, están disponibles electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. 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=-95.5125,30.772222&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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas 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 especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional de la ciudad de Huntsville a la dirección indicada arriba o llamando al Sr. Stacy Lawler, superintendente de aguas residuals, al 936-294-5763.

Fecha de emission: 14 de febrero de 2025

PLUMMER

0370-017-01

February 3, 2025

Texas Commission on Environmental Quality
Applications Review and Processing Team (MC 148)
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

Re: City of Huntsville (CN600745566)
A.J. Brown/Parker Creek Wastewater Treatment Facility (RN101612471)
Application for Renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010781003

To Whom It May Concern:

On behalf of the City of Huntsville, Plummer Associates, Inc. (Plummer) submits one original and one copy of a TPDES permit application for the above-referenced facility. The application fee of $2,015.00 will be submitted under separate cover.

Please feel free to contact me at jgriesel@plummer.com or (512) 687-2193 if you have any questions regarding this submittal.

Sincerely,

PLUMMER
TBPE Firm Registration No. F-13

Jenni Griesel

Jenni Griesel, P.E.
Project Engineer

Enclosures: Domestic TPDES Permit Renewal Application (1 original, 1 copy)

cc: Ms. Kimberly Kembro, Assistant Public Works Director, City of Huntsville
Mr. Stacy Lawler, Wastewater Superintendent, City of Huntsville

CITY OF HUNTSVILLE

A.J. BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT RENEWAL APPLICATION

PERMIT NO. WQ0010781003

SUBMITTED TO:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FEBRUARY 2025

PROJECT #: 0370-017-01

PLUMMER

CITY OF HUNTSVILLE
A.J. BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

TABLE OF CONTENTS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Huntsville

PERMIT NUMBER (If new, leave blank): WQ0010781003

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: Click to enter text.

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Huntsville

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐ N/A

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: N/A

f. For existing permits:

Permit Number: WQ00 10781003

EPA I.D. (TPDES only): TX 0072974

Expiration Date: July 31, 2025

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

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

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

City of Huntsville

(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: 600745566

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

Prefix: Mr. Last Name, First Name: Sherrod, Brent

Title: Public Works Director Credential: P.E.

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

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

N/A

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

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

CN: N/A

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

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

Title: N/A Credential: N/A

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Lawler, Stacy

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5763 E-mail Address: wlawler@huntsvilletx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms. Last Name, First Name: Lewis, Ashley

Title: Water Quality/Permitting Team Leader Credential: N/A

Organization Name: Plummer Associates, Inc.

Mailing Address: 8911 N Capital of Texas Hwy, Bldg 1 – Ste 1250

City, State, Zip Code: Austin, TX 78759

Phone No.: (512) 687-2154 E-mail Address: alewis@plummer.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: Lawler, Stacy

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5763 E-mail Address: wlawler@huntsvilletx.gov

B. Prefix: Ms. Last Name, First Name: Kembro, Kimberly

Title: Assistant Public Works Director Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5735 E-mail Address: kkembro@huntsvilletx.gov

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: Lawler, Stacy

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5763 E-mail Address: wlawler@huntsvilletx.gov

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: Lawler, Stacy

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5763 E-mail Address: wlawler@huntsvilletx.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Griesel, Jenni

Title: Project Engineer Credential: P.E.

Organization Name: Plummer Associates, Inc.

Mailing Address: 8911 N Capital of Texas Hwy, Bldg 1 – Ste 1250

City, State, Zip Code: Austin, TX 78759

Phone No.: (512) 687-2193 E-mail Address: jgriesel@plummer.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: Lawler, Stacy

Title: Wastewater Superintendent Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 448 State Highway 75 N City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5763 E-mail Address: wlawler@huntsvilletx.gov

D. Public Viewing Information

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

Public building name: City of Huntsville Service Center

Location within the building: Lobby

Physical Address of Building: 448 State Highway 75 N

City: Huntsville County: Walker

Contact (Last Name, First Name): Lawler, Stacy

Phone No.: (936) 294-5763 Ext.: N/A

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: B

G. Public Involvement Plan Form

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

Attachment: N/A - Renewal

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** 101612471

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):

A.J. Brown/Parker Creek Wastewater Treatment Facility

C. Owner of treatment facility: City of Huntsville

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

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

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

Title: N/A Credential: N/A

Organization Name: City of Huntsville

Mailing Address: 1212 Avenue M City, State, Zip Code: Huntsville, TX 77340

Phone No.: (936) 294-5707 E-mail Address: bsherrod@huntsvilletx.gov

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

Attachment: N/A

E. Owner of effluent disposal site:

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

Title: N/A Credential: N/A

Organization Name: N/A

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

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

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

Attachment: N/A

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

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

Title: N/A Credential: N/A

Organization Name: N/A

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

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

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): Huntsville

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

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 N/A

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

Attachment: N/A

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No N/A – Not a TLAP

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: N/A

C. County in which the disposal site is located: N/A

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

N/A

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: See Table of Contents

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010781003

Applicant: City of Huntsville

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): Brent Sherrod, P.E.

Signatory title: Public Works Director

Signature: Brent S Sherrod Date: 1/28/25

(Use blue ink)

Subscribed and Sworn to before me by the said Brent S. Sherrod

on this 28th day of January, 20 25.

My commission expires on the 17th day of August, 20 26

Mary Joyner

Notary Public

[SEAL]

MARY JOYNER NOTARY PUBLIC STATE OF TEXAS ID 124306205 EXP. 08-17-2026

Walker

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Huntsville

   Permit No. WQ00 10781003 EPA ID No. TX 0072974

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

   94 Parker Creek Road, Huntsville, Walker County, TX 77320

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: Stacy Lawler

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

Title: Wastewater Superintendent

Mailing Address: 448 State Highway 75 N

City, State, Zip Code: Huntsville, TX 77320

Phone No.: (936) 294-5763 Ext.: N/A Fax No.: N/A

E-mail Address: wlawler@huntsvilletx.gov

2. List the county in which the facility is located: Walker
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 – Applicant and property owner are the same.

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

to an unnamed tributary of Parker Creek, thence to Parker Creek, thence to Harmon Creek, thence to Lake Livingston in Segment No. 0803 of the Trinity 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. None Apply

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

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

N/A

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

Existing disturbances, vegetation, and land use are typical for a wastewater treatment facility of this size.

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

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

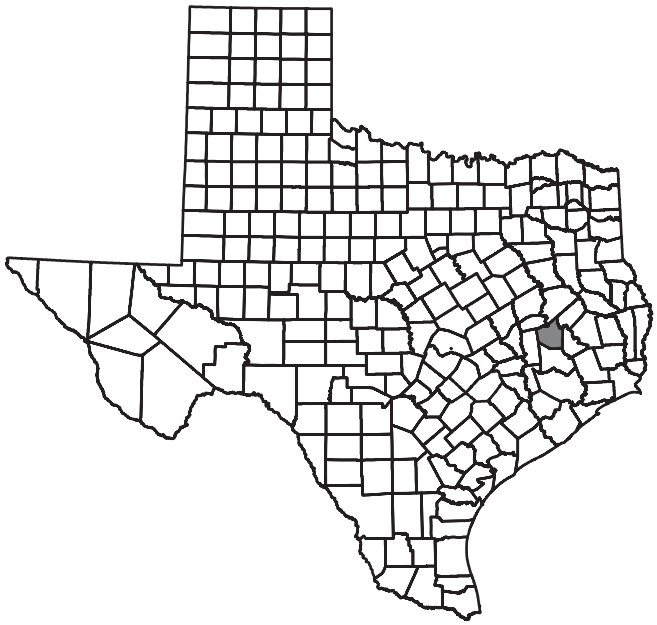
N/A

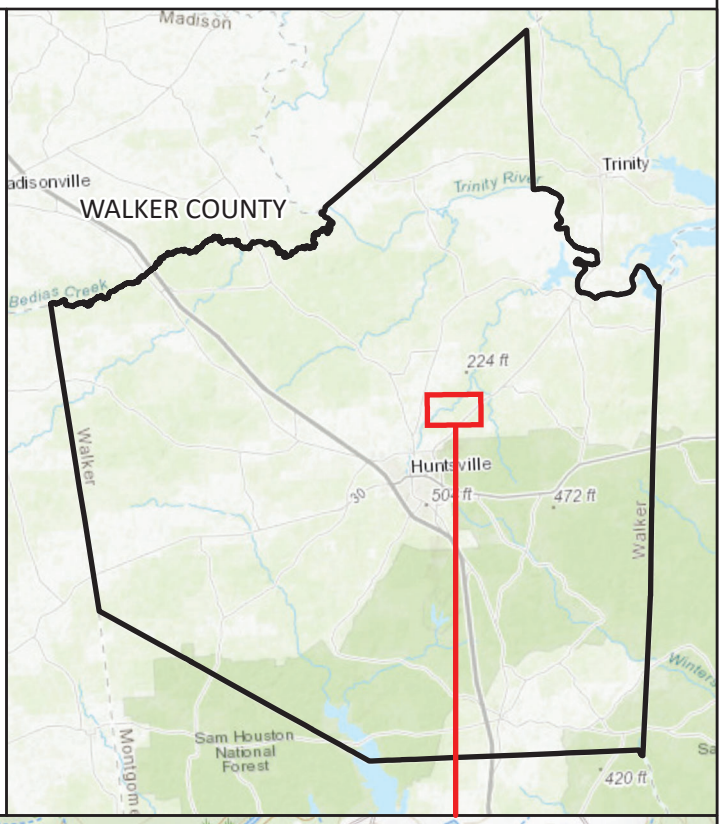
9. Provide a brief history of the property, and name of the architect/builder, if known.

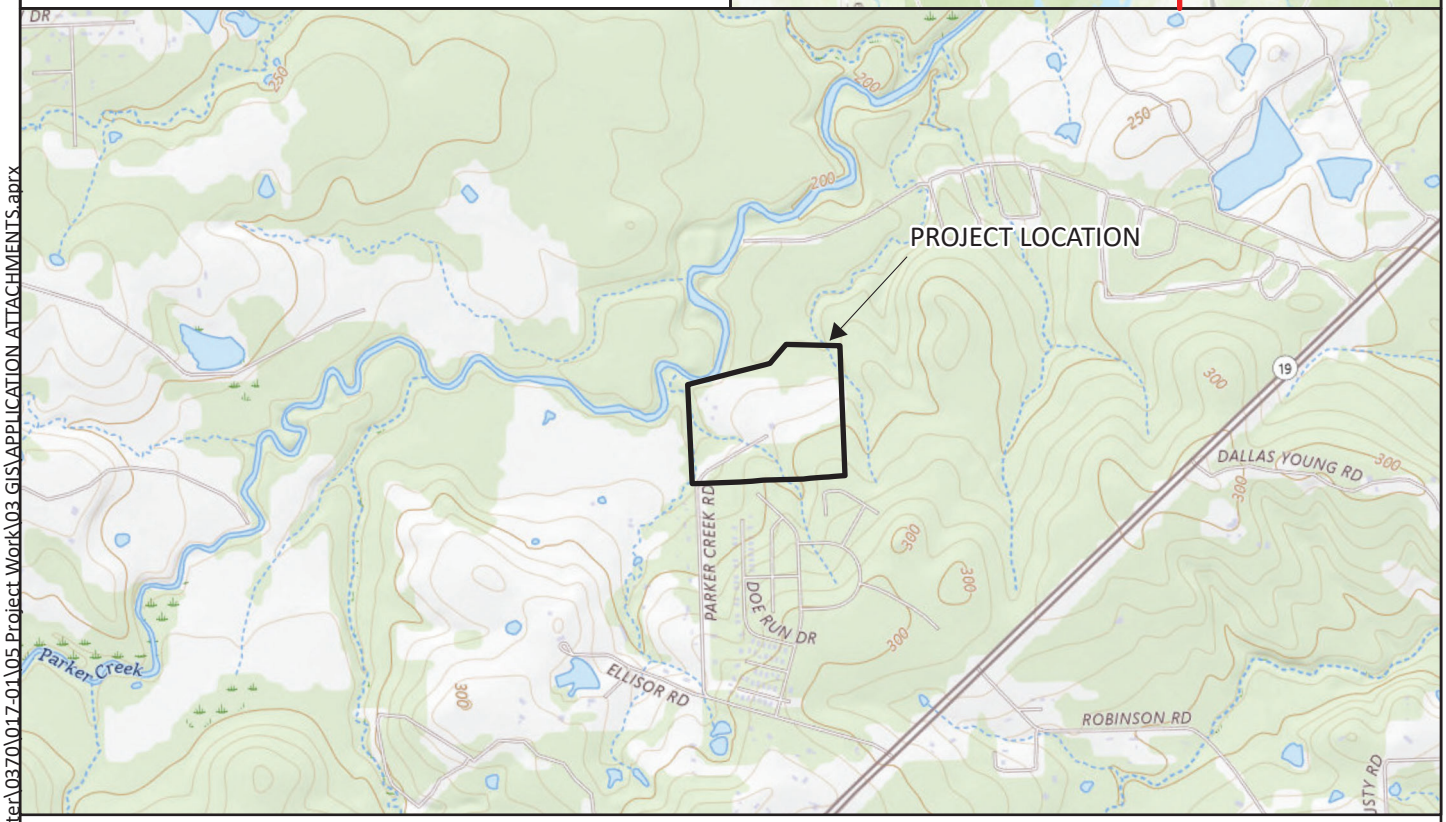
N/A

PLUMMER

N

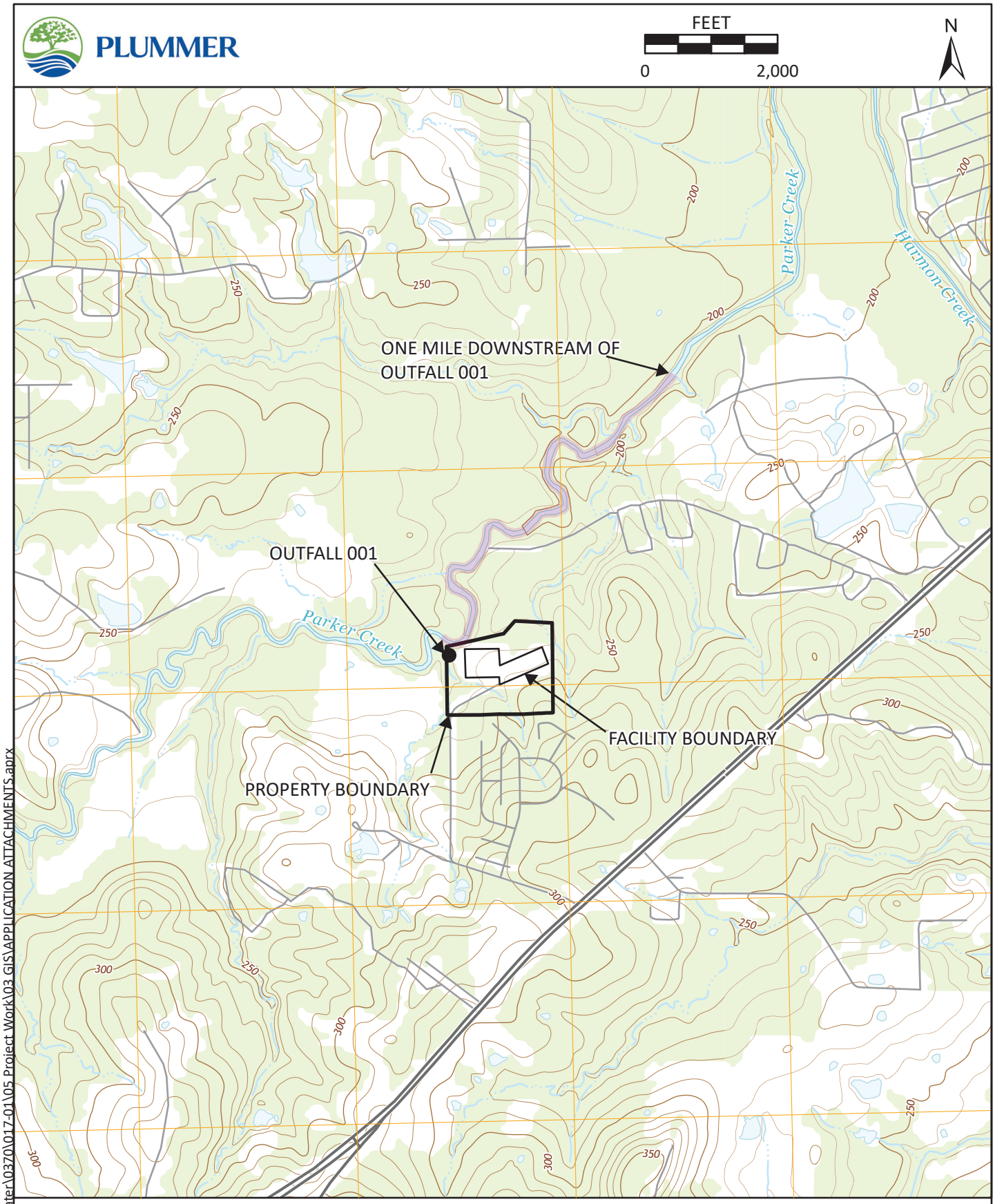






SPIF 1
CITY OF HUNTSVILLE
AJ BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
GENERAL LOCATION MAP

TEXAS REGISTERED ENGINEERING FIRM F-13
Z:\Shared\Projects\Water\0370\017-01\05 Project Work\03 GIS\APPLICATION ATTACHMENTS.aprx



SPIF 2
CITY OF HUNTSVILLE
AJ BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP

TEXAS REGISTERED ENGINEERING FIRM F-13
Z:\Shared\Projects\Water\0370\017-01\05 Project Work\03 GIS\APPLICATION ATTACHMENTS.aprx

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): 4.15

2-Hr Peak Flow (MGD): 10.5

Estimated construction start date: N/A – Previous Phase

Estimated waste disposal start date: N/A – Previous Phase

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): 4.5

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

Estimated construction start date: N/A – Current Phase

Estimated waste disposal start date: N/A – Current Phase

D. Current Operating Phase

Provide the startup date of the facility: August 2020

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 facility uses sequencing batch reactors (SBR) for treatment. Influent enters mechanical coarse screens with a manual bar screen bypass. Grit is removed from screened effluent, and influent may be stored in equalization basins during peak flow events. Treated influent enters the SBR system with solids recirculation. SBR effluent is disinfected by chlorine and dechlorinated prior to discharge via Outfall 001. Waste sludge from the SBRs is stored in aerated tanks before being dewatered in a volute press. Sludge drying beds are available as a back-up solids treatment option. Dewatered sludge is hauled offsite for disposal.

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)
Mechanical Screens	2	0.25" Openings
Manual Bar Screen	1	4’ W x 2’ D
Grit Removal System	1	16’ Dia
Flow Equalization Basins	2	1.25 MG
Sequencing Batch Reactors	4	125’ L x 50’ W x 20’ SWD
Chlorine Contact Basins	2 1	49.5’ L x 12’ W x 10.25’ SWD 49.5’ L x 18.75’ W x 9.75’ SWD
Dechlorination Basin	1	12.92’ L x 5’ W x 7.25’ SWD
Post-Aeration Basin	1	10.5’ L x 5’ W x 10’ D
Solids Storage Tanks	2	75’ Dia x 8’ SWD
Solids Dewatering Volute Press	2 (Barrels)	265 gpm Capacity
Solids Drying Beds	11	100’ L x 50’ W x 2’ D

C. Process Flow Diagram

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

Attachment: D

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

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

- Latitude: 30.773008
- Longitude: -95.513213

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: E

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

The facility serves the City of Huntsville's northern wastewater collection system, Texas Department of Criminal Justice (TDCJ) facilities, and Sam Houston State University (SHSU).

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
Northern City of Huntsville	City of Huntsville	Publicly Owned	27,000
TDCJ	TDCJ	Publicly Owned	8,000
SHSU	SHSU	Publicly Owned	22,000

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 N/A

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

N/A

Section 5. Closure Plans (Instructions Page 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 N/A

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

N/A

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: 6/1/2018

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**.

The summary transmittal letter was submitted on February 26, 2018, and approved by TCEQ on June 1, 2018. Log No. 0318/010.

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.

Evidence of legal restrictions in the buffer zone not owned by the City was submitted to TCEQ on May 25, 2018. Otherwise, the buffer zone is met by ownership.

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*.

A Notification of Completion Form 20007 was submitted to TCEQ prior to startup of the Final Phase, fulfilling Other Requirement No. 8.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

☐ Yes ☐ No N/A

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

Describe the method of grit disposal.

N/A

4. Grease and decanted liquid disposal

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

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

N/A

E. Stormwater management

1. Applicability

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

2. MSGP coverage

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

☒ Yes ☐ No

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

TXR05 T744 or TXRNE

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

☐ Yes ☐ No N/A

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:

N/A

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.

N/A

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.

N/A

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.

N/A

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.
N/A

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

N/A

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 N/A

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

☐ Yes ☐ No N/A

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

N/A

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.

N/A

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). W***ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	7.0	7.0	1	Comp.	11-5-24 00:23
Total Suspended Solids, mg/l	5.0	5.0	1	Comp.	11-5-24 00:23
Ammonia Nitrogen, mg/l	<0.2	<0.2	1	Comp.	11-5-24 00:23
Nitrate Nitrogen, mg/l	1.89	1.89	1	Comp.	8-7-24 08:47
Total Kjeldahl Nitrogen, mg/l	1.09	1.09	1	Comp.	12-11-24 23:56
Sulfate, mg/l	88.4	88.4	1	Comp.	12-11-24 23:56
Chloride, mg/l	108	108	1	Comp.	12-11-24 23:56
Total Phosphorus, mg/l	2.34	2.34	1	Comp.	12-11-24 23:56
pH, standard units	7.21	7.21	1	Grab	11-5-24 00:23
Dissolved Oxygen*, mg/l	6.50	6.50	1	Grab	11-5-24 00:23
Chlorine Residual, mg/l	0.07	0.07	1	Grab	11-6-24 10:23
E.coli (CFU/100ml) freshwater	<1	<1	1	Grab	11-6-24 10:50
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	528	528	1	Comp.	12-11-24/23:56
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<2.78	<2.78	1	Grab	12-12-24 08:47
Alkalinity ($CaCO_3$)*, mg/l	124.1	124.1	1	Comp.	12-11-24 23:56

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Joseph Leblanc

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

Facility Operator's License Number: WW0071008

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

B. WWTP's 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:

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
Disposal in Landfill	On-Site Owner or Operator	Not Applicable	N/A	N/A	N/A

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): N/A

D. Disposal site

Disposal site name: Security Recycling and Disposal Facility

TCEQ permit or registration number: 1752B

County where disposal site is located: Montgomery

E. Transportation method

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

Name of the hauler: City of Huntsville Solid Waste Department

Hauler registration number: 22509

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 N/A

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 N/A

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 N/A

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: N/A
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: N/A
- Federal Emergency Management Map:

  Attachment: N/A

- Site map:

  Attachment: N/A

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: N/A

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:

N/A

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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

C. Liner information

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

☐ Yes ☐ No N/A

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

N/A

D. Site development plan

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

N/A

Attach the following documents to the application.

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

  Attachment: N/A
- Copy of the closure plan

  Attachment: N/A
- Copy of deed recordation for the site

  Attachment: N/A
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: N/A
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: N/A
- Procedures to prevent the occurrence of nuisance conditions

Attachment: N/A

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 N/A

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: N/A

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:

N/A

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:

N/A

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: N/A

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: Brent Sherrod, P.E.

Title: Director of Public Works

Signature: _____

Date: 1/28/25

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 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 it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

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

Attachment: N/A

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: N/A

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No N/A

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

N/A

C. Sea grasses

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

☐ Yes ☐ No N/A

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

N/A

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: Unnamed tributary of Parker Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

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:

C. Downstream perennial confluences

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

Parker Creek, Harmon Creek

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

N/A

E. Normal dry weather characteristics

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

Stream is clear and flowing.

Date and time of observation: 1/9/2024, 15:07

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
☐ Upstream discharges
☐ Septic tanks
☒ Urban runoff
☒ Agricultural runoff
☐ Other(s), specify:

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 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 F

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	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	229	229	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	1.43	1.43	1	0.5
Barium	80.3	80.3	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)anthracene	<5.05	<5.05	1	5
Benzo(a)pyrene	<5.05	<5.05	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	<10	<10	1	10
Bromoform	<10	<10	1	10
Cadmium	<1	<1	1	1
Carbon Tetrachloride	<5	<5	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<10	<10	1	10
Chlorpyrifos	<0.2	<0.2	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	21.7	21.7	1	2
Chrysene	<5.05	<5.05	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
p-Cresol	<10	<10	1	10
Cyanide **(*2)**	<10	<10	1	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.2	<0.2	1	0.20
Diazinon	<0.5	<0.5	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5.05	<5.05	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09
Endosulfan I (alpha)	<0.01	<0.01	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	<500	<500	1	500
Guthion	<0.2	<0.2	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5.05	<5.05	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	0.9	0.9	1	0.5
Malathion	<0.2	<0.2	1	0.1
Mercury	0.0228	0.0228	1	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	3.47	3.47	1	2
Nitrate-Nitrogen	1890	1890	1	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.2	<0.2	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5.05	<5.05	1	5
Phenanthrene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	43.6	43.6	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☒

Date and time sample(s) collected: See Attachment F.

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

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony	<5	<5	1	5
Arsenic	1.43	1.43	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<1	<1	1	1
Chromium (Total)	<3	<3	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Copper	21.7	21.7	1	2
Lead	0.9	0.9	1	0.5
Mercury	0.0228	0.0228	1	0.005
Nickel	3.47	3.47	1	2
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	43.6	43.6	1	5
Cyanide **(*2)**	<10	<10	1	10
Phenols, Total	<10	<10	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<5	<5	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<25	<25	1	10
Chloroform	<10	<10	1	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	1	10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	1	10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<10	<10	1	10
2,4-Dichlorophenol	<10	<10	1	10
2,4-Dimethylphenol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
2,4-Dinitrophenol	<50	<50	1	50
2-Nitrophenol	<20	<20	1	20
4-Nitrophenol	<50	<50	1	50
P-Chloro-m-Cresol	<10	<10	1	10
Pentalchlorophenol	<5.05	<5.05	1	5
Phenol	19.9	19.9	1	10
2,4,6-Trichlorophenol	<10	<10	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<10	<10	1	10
Acenaphthylene	<10	<10	1	10
Anthracene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)Anthracene	<5.05	<5.05	1	5
Benzo(a)Pyrene	<5.05	<5.05	1	5
3,4-Benzofluoranthene	<10	<10	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5.05	<5.05	1	5
Bis(2-Chloroethoxy)Methane	<10	<10	1	10
Bis(2-Chloroethyl)Ether	<10	<10	1	10
Bis(2-Chloroisopropyl)Ether	<10	<10	1	10
Bis(2-Ethylhexyl)Phthalate	<10	<10	1	10
4-Bromophenyl Phenyl Ether	<10	<10	1	10
Butyl benzyl Phthalate	<10	<10	1	10
2-Chloronaphthalene	<10	<10	1	10
4-Chlorophenyl phenyl ether	<10	<10	1	10
Chrysene	<5.05	<5.05	1	5
Dibenzo(a,h)Anthracene	<5.05	<5.05	1	5
1,2-(o)Dichlorobenzene	<10	<10	1	10
1,3-(m)Dichlorobenzene	<10	<10	1	10
1,4-(p)Dichlorobenzene	<10	<10	1	10
3,3-Dichlorobenzidine	<5.05	<5.05	1	5
Diethyl Phthalate	<10	<10	1	10
Dimethyl Phthalate	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
2,4-Dinitrotoluene	<10	<10	1	10
2,6-Dinitrotoluene	<10	<10	1	10
Di-n-Octyl Phthalate	<10	<10	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<20	<20	1	20
Fluoranthene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5.05	<5.05	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclo-pentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Indeno(1,2,3-cd)pyrene	<5.05	<5.05	1	5
Isophorone	<10	<10	1	10
Naphthalene	<10	<10	1	10
Nitrobenzene	<10	<10	1	10
N-Nitrosodimethylamine	<50	<50	1	50
N-Nitrosodi-n-Propylamine	<20	<20	1	20
N-Nitrosodiphenylamine	<20	<20	1	20
Phenanthrene	<10	<10	1	10
Pyrene	<10	<10	1	10
1,2,4-Trichlorobenzene	<10	<10	1	10

Table 4.0(2)E – Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.01	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
Chlordane	<0.2	<0.2	1	0.2
4,4-DDT	<0.02	<0.02	1	0.02
4,4-DDE	<0.1	<0.1	1	0.1
4,4,-DDD	<0.1	<0.1	1	0.1
Dieldrin	<0.02	<0.02	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Endrin Aldehyde	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.2	<0.2	1	0.2
Toxaphene	<0.3	<0.3	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

N/A

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

☐ Yes ☒ No

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

N/A

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

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

Grab ☐ Composite ☐

Date and time sample(s) collected: N/A

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: See Attachment G

48-hour Acute: See Attachment G

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☒ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

N/A

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	See Attachment G		

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.

N/A

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.

N/A

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 N/A

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.

N/A

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.

N/A

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
N/A – No IUs, monitoring is not required.				

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.

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: N/A

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 *i*nstructions?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

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

CITY OF HUNTSVILLE
A.J. BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

TABLE OF ATTACHMENTS

ATTACHMENT A

Core Data Form
Admin Rpt 1.0, Section 3.C

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600745566		**RN 101612471**

SECTION II: Customer Information

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

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

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

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

City of Huntsville

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

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☐ 0-20 ☐ 21-100 ☐ 101-250 ☒ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☐ **Yes** ☒ **No**

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

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

15. Mailing Address:	1212 Avenue M							
	City	Huntsville	**State**	TX	**ZIP**	77340	**ZIP + 4**	4608

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	bsherrod@huntsvilletx.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(936) 294-5707		( ) -

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.)*

A.J. Brown/Parker Creek Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	94 Parker Creek Rd							
	City	Huntsville	**State**	TX	**ZIP**	77320	**ZIP + 4**	0498
24. County	Walker							

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

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**
Huntsville	TX	77320

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:	30.772090		**28. Longitude (W) In Decimal:**	-95.510656	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	46	19.524	95	30	38.3616

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Treatment of domestic wastewater

34. Mailing Address:	**448 State Highway 75 N**							
	City	**Huntsville**	**State**	**TX**	**ZIP**	**77320**	**ZIP + 4**	**1118**
35. E-Mail Address:	**wlawler@huntsvilletx.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(936) 294-5763		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010781003			

SECTION IV: Preparer Information

40. Name:	Jenni Griesel	**41. Title:**	Project Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 687-2193		( ) -	jgriesel@plummer.com

SECTION V: Authorized Signature

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

Company:	City of Huntsville	**Job Title:**	Public Works Director	
Name *(In Print):*	Brent Sherrod, P.E.		**Phone:**	(936) 294- **5707**
Signature:	Brent D Sherrod		**Date:** 1/28/25	

ATTACHMENT B

Plain Language Summary
Admin Rpt 1.0, Section 8.F

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

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

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

City of Huntsville (CN600745566) operates A.J. Brown/Parker Creek Wastewater Treatment Facility (RN101612471), a sequencing batch reactor treatment facility. The facility is located at 94 Parker Creek Road, in Huntsville, Walker County, Texas 77320. This application is for a permit renewal to discharge treated domestic wastewater at an annual average flow not to exceed 4,500,000 gallons per day.

Discharges from the facility are expected to contain 5-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, and *E. coli*. Domestic wastewater is treated by bar screens, mechanical screens, grit removal, flow equalization basins, sequencing batch reactors, chlorine contact basins, dechlorination, post-aeration, aerated solids storage, solids dewatering volute press, and solids drying beds.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

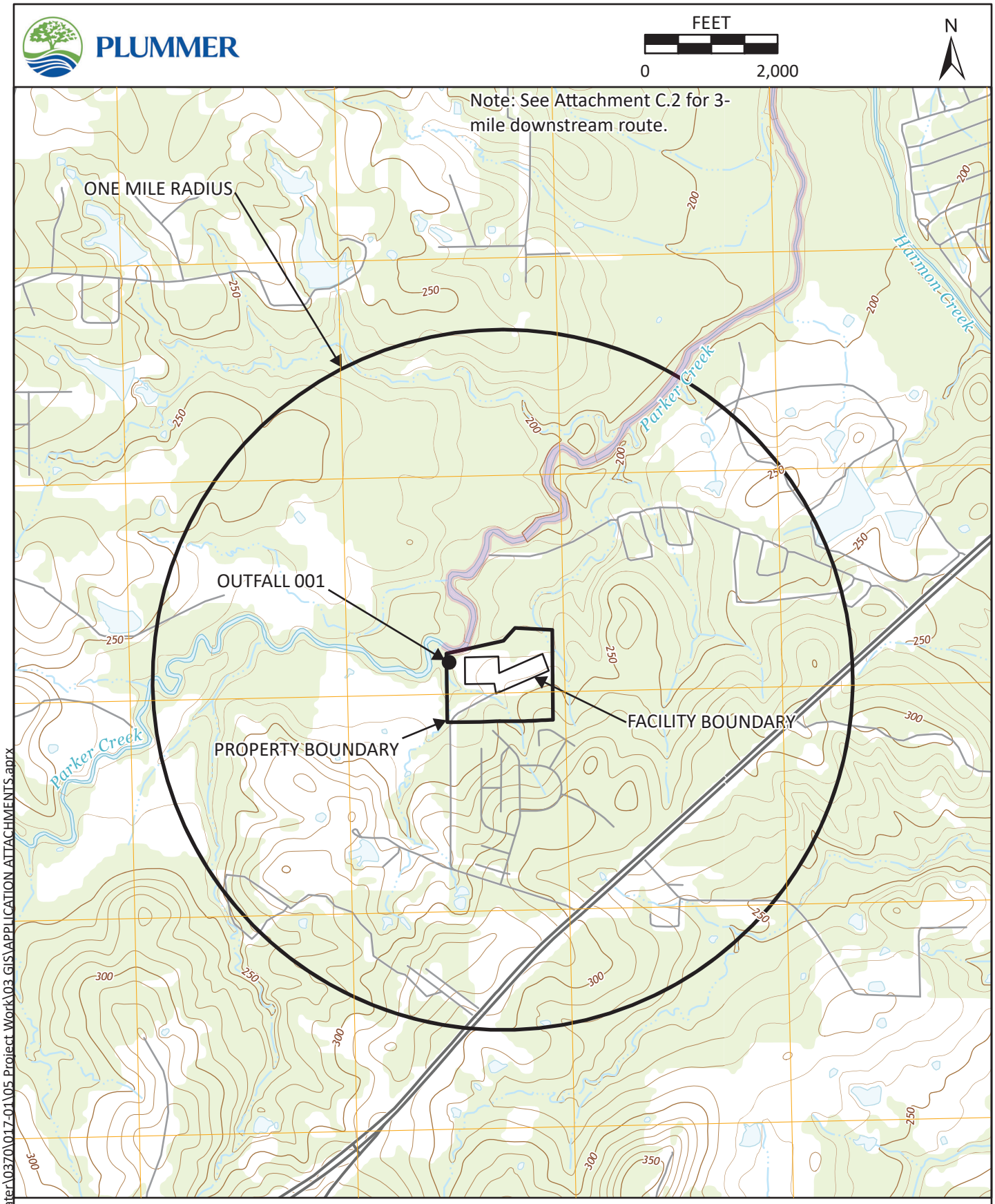
El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar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

La ciudad de Huntsville (CN600745566) opera la instalación de tratamiento de aguas residuales de AJ Brown/Parker Creek (RN101612471), una instalación de tratamiento con reactor discontinuo secuencial. La instalación está ubicada en 94 Parker Creek Road, en la ciudad de Huntsville, Condado de Walker, Texas 77320. Esta solicitud es para renovar un permiso para descargar aguas residuales domésticas tratadas con un caudal promedio anual que no exceda los 4.500.000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de 5 días, sólidos suspendidos totales, nitrógeno amoniacal y *E. coli*. aguas residuales domésticas están tratado por rejillas de barras, pantallas mecánicas, eliminación de arena, cuencas de ecualización de flujo, reactores discontinuos secuenciales, cuencas de contacto con cloro, decloración, post-aireación, almacenamiento de sólidos aireados, prensa de voluta para deshidratación de sólidos y lechos de secado de sólidos.

ATTACHMENT C

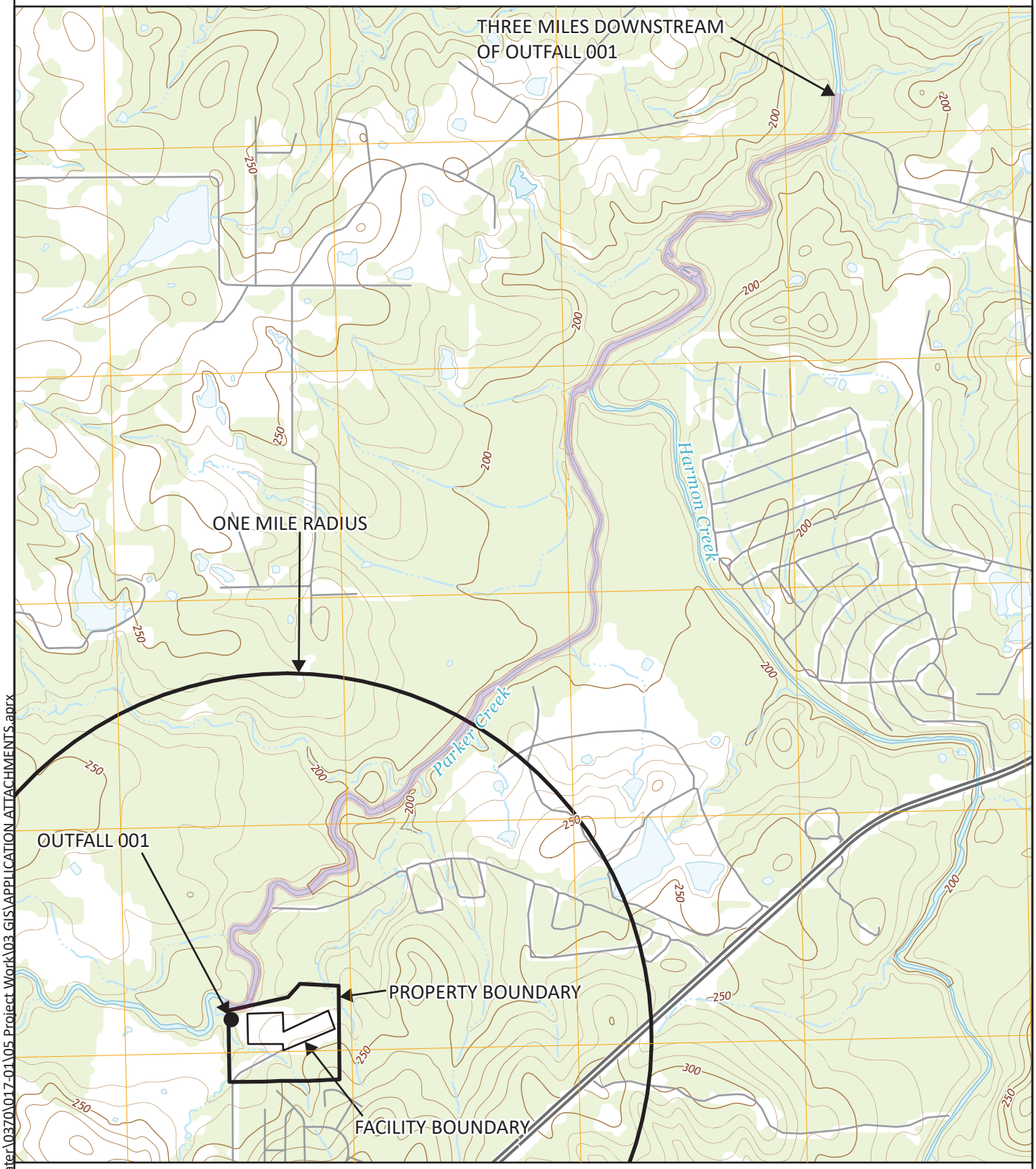
USGS Map
Admin Rpt 1.0, Section 13



Note: No springs, public supply wells, or monitoring wells within 1 mile of the facility.

ATTACHMENT C.1
CITY OF HUNTSVILLE
AJ BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP

TEXAS REGISTERED ENGINEERING FIRM F-13
Z:\Shared\Projects\Water\0370\017-01\05 Project Work\03 GIS\APPLICATION ATTACHMENTS.aprx



Note: No springs, public supply wells, or monitoring wells within 1 mile of the facility.

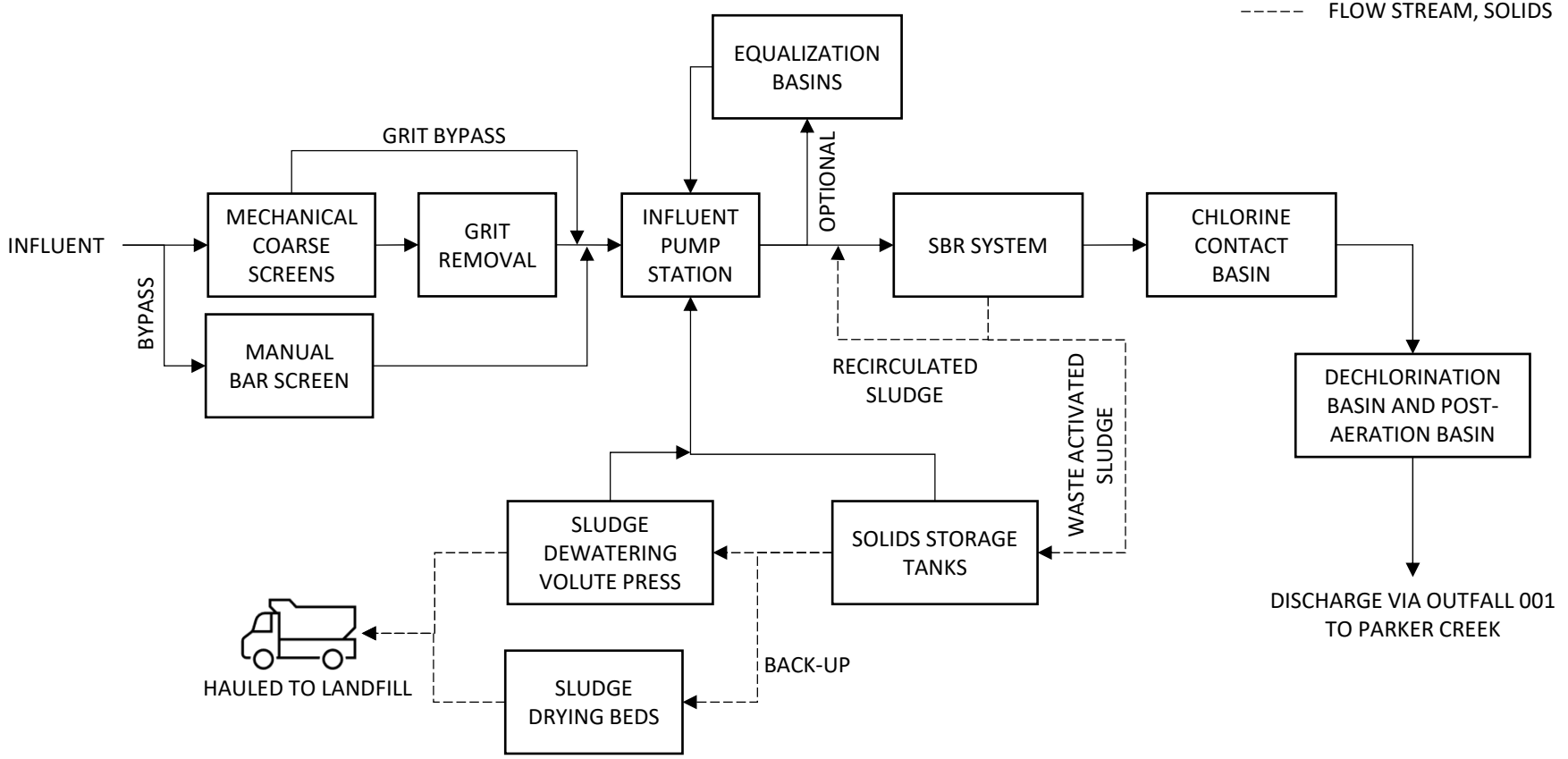
ATTACHMENT C.2
CITY OF HUNTSVILLE
AJ BROWN/ PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP

TEXAS REGISTERED ENGINEERING FIRM F-13
Z:\Shared\Projects\Water\0370\017-01\05 Project Work\03 GIS\APPLICATION ATTACHMENTS.aprx

ATTACHMENT D

Process Flow Diagram
Tech Rpt 1.0, Section 2.C

PLUMMER



ATTACHMENT D
CITY OF HUNTSVILLE
A.J. BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
PROCESS FLOW DIAGRAM

TEXAS REGISTERED ENGINEERING FIRM F-13
Z:\Shared\Projects\Water\0370\017-01\05 Project Work\05 Permitting\01 AJ Brown Permit Application\Attachments\Att D Flow Diagram.pptx

ATTACHMENT E

Site Drawing
Tech Rpt 1.0, Section 3

ATTACHMENT E
CITY OF HUNTSVILLE
AJ BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SITE DRAWING

TEXAS REGISTERED ENGINEERING FIRM F-13
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ATTACHMENT F

Pollutant Analysis of Treated Effluent
Tech Rpt 1.0, Section 7; Wks 4.0 Section 1 & 2

City of Huntsville – Parker Creek Lab

WWTP Monitoring – TPDES Permit Parameter

Composite of Results Only; Please Refer to Bench/Field Worksheet for Further Information Regarding Analysis

	Parker Creek		South Plant		Robinson Creek	
Parameter	***Influent****	***Effluent***	***Influent****	***Effluent***	***Influent****	***Effluent***
BOD_5	127		81		97	
$CBOD_5$		7		<2		<2
TSS	212.0	5.0	142.0	3.0	170.0	6.0
NH_3-N	18.00	<0.2	10.20	<0.2	19.90	<0.2
pH Std Units (Grab/Field)	7.04	7.21	7.15	7.11	7.26	7.51
Dissolved Oxygen (Field)		6.50		7.16		7.16

6 Pt/C Sample Date 11/5/24

Standard Methods for the Examination of Water & Wastewater 23rd Edition

SM 5210 B. Biochemical Oxygen Demand
SM 4500–NH_3 D. Ammonia-Selective Electrode Method
SM 4500- H^+ B. pH Electrometric Method
SM 2540 D. Total Suspended Solids
SM 4500-O Optical-Probe Method

Comments: _____

Parker Creek WWTP Effluent

Samples Collected Outfall Side of Dechlorination Weir Past Turbulence Bars
ISCO 5800 Stationary Refrigerated Sampler

Sampler set-up on 11/1/24 @ 8:50 by MPH; Internal Temp. 2.0 °C.
First sample taken on 11/5/24 @ 0023. Samples picked up on 11/6/24 @ 8:10 by MPH; Internal Temp. 2.5 °C. Samples received and composited by MPH @ 8:10.

South WWTP Effluent

Samples Collected Outfall Side of Dechlorination Weir
ISCO 5800 Stationary Refrigerated Sampler

Sampler set-up on 11/1/24 @ 9:20 by MPH; Internal Temp. 1.5 °C.
First sample taken on 11/5/24 @ 10a. Samples picked up on 11/6/24 @ 9:35 by MPH; Internal Temp. 2.0 °C. Samples received and composited by MPH @ 9:35.

Robinson Creek WWTP Effluent

Samples Collected Outfall Side of Ultraviolet Weir
ISCO 5800 Stationary Refrigerated Sampler

Sampler set-up on 11/1/24 @ 10:15 by MPH; Internal Temp. 1.5 °C.
First sample taken on 11/5/24 @ 10a. Samples picked up on 11/6/24 @ 10:13 by MPH; Internal Temp. 2.0 °C. Samples received and composited by MPH @ 10:13.

Flow Proportion Worksheet

Calculation for 2300 ml sample:

a. Record times of sample collection
b. Determine flow in MGD at the time of sample collection from effluent meter and record. Total all readings. If SCADA inoperable, indicate under "comments" & collect equal mls from each.
c. Divide each of the 6 readings (for Parker Creek, the number of decants) by the total MGD or GPM and multiply this ration by 2300. This will indicate the volume to collect from each of the samples for a 2300 ml total.

Parker Creek Effluent

Date - 11/5/24 Analyst - MPH

	Time	Flow (GPM)	mL of Sample
1st	00:23	4772.578	
2nd	01:54	4493.936	
3rd	03:25	4107.702	
4th	04:51	4579.650	
5th	06:22	4414.498	
6th	07:53	4578.755	
7th	09:25	4290.514	
8th	11:16	4341.645	
9th	12:43	4185.005	
10th	14:11	4241.750	
11th	15:42	4370.334	
12th	17:11	4271.791	
13th	18:40	4653.225	
14th	20:13	4071.548	
15th	21:41	4099.787	
16th			

Totals = _____ _____

Comments - _____

South Plant Effluent

Date - 11/5/24 Analyst - MPH

	Time	Flow (GPM)	mL of Sample
1st	10a	936.709	
2nd	12p	887.114	
3rd	2p	617.565	
4th	4p	929.768	
5th	6p	834.030	
6th	8p	836.160	

Totals = _____ _____

Comments - _____

Robinson Creek Effluent

Date - 11/5/24 Analyst - MP/A

Time	Flow (MGD)	mL of Sample
1st 10a	2.938	
2nd 12p	2.739	
3rd 2p	1.289	
4th 4p	2.501	
5th 6p	0.959	
6th 8p	1.756	

Totals = _____ _____

Comments - _____

AJ Brown

Sample	Time	*Flow (GPM)*	*mLs of Sample*
1st		4272.58	151
2nd		4493.94	159
3rd		4107.70	145
4th		4579.65	162
5th		4414.50	156
6th		4579.76	162
7th		4290.51	152
8th		4341.65	154
9th		4185.01	148
10th		4241.75	150
11th		4370.33	155
12th		4271.79	151
13th		4653.23	165
14th		4071.25	144
15th		4099.79	145
16th			0
17th			0
18th			0
	Totals=	64973.42	2300

NB Davidson

Sample	Time	*Flow (MGD)*	*mLs of Sample*
1st		936.27	428
2nd		887.11	405
3rd		612.57	280
4th		929.77	425
5th		834.03	381
6th		836.16	382
	Totals=	5035.91	2300

Robinson Creek

Sample	Time	*Flow (MGD)*	*mLs of Sample*
1st		2.938	555
2nd		2.737	517
3rd		1.289	243
4th		2.501	472
5th		0.959	181
6th		1.758	332
	Totals=	12.182	2300

City of Huntsville – Parker Creek Lab
5210 B – Biochemical Oxygen Demand (BOD) Test
Standard Methods for the Examination of Water & Wastewater 23rd Edition

Incubation Start Date: 11-6-24 Start Time: 12:05p Analyst: DM

Incubation End Date: 11-11-24 End Time: 8:20a Analyst: DM

Sample Preparation Analyst - DM Time: 11:00a

Sample Location	Date Collected	Hold Time Initiation	Type	pH	pH Adj
PC Influent	11-5-24	3p	6 pt/c	7.44	NA
SP Influent	11-5-24	3p	6 pt/c	7.31	NA
RC Influent	11-5-24	3p	6 pt/c	7.32	NA

Sample	mls	Bot #	Initial D.O.	Final D.O.	Diff (I-F)	Dil. Fact	mg/l	Result	Reported
Blank	XXX	118	8.14	7.89	0.25	N/A	N/A	0.24	
	XXX	119	8.13	7.89	0.24	N/A	N/A		
PC Influent	5	164	8.08	5.76	2.32	60	139.2	127.1	127
#1	10	377	7.96	3.78	4.18	30	125.4		
	15	203	7.85	2.01	5.84	20	116.8		
PC Influent	5					60			
#2	10					30			
	15					20			
SP Influent	5	363	8.16	6.51	1.65	60	NA	81.3	81
#1	10	375	8.18	5.37	2.81	30	84.3		
	15	43	8.12	4.20	3.92	20	78.4		
SP Influent	10					30			
#2	15					20			
	20					15			
RC Influent	5	368	8.14	6.31	1.83	60	NA	96.8	97
#1	10	1A	8.09	4.75	3.34	30	100.2		
	15	11	8.00	3.33	4.67	20	93.4		
RC Influent	5	211	8.13	6.23	1.90	60	NA	100.8	
#2	10	37	8.06	4.69	3.37	30	101.1		
	15	19A	7.67	2.64	5.03	20	100.6		

Comments:

(Revised 01/12/2024, DM)

City of Huntsville – Parker Creek Lab
Carbonaceous Biochemical Oxygen Demand (CBOD) Test
Parker Creek, South Plant, & Robinson Creek WWTP Effluent Analysis
5210 B – Biochemical Oxygen Demand (BOD)
Standard Methods for the Examination of Water & Wastewater 23rd Edition

Incubation Start Date: 11-6-24 Start Time: 12:03p Analyst: DM

Incubation End Date: 11-11-24 End Time: 8:20a Analyst: DM

Sample Preparation Analyst - DM

Sample Location	Date Collected	Hold Time Initiation	Type	pH	pH Adj.	mls seed
PC Effluent	11-5-24	21:41	pt/c	7.48	6.97	4
SP Effluent	11-5-24	8p	6pt/c	7.59	6.89	4
RC Effluent	11-5-24	8p	6pt/c	7.76	NA	4

Reagent Preparation: G/G & Polyseed

Date - 11-6-24 Analyst - MPH / DM

Sample Dechlorination Verification Analyst - DM

Blank: 0.00 mg/l	2 mg/l Cl_2 Equivalent Standard: 1.47 mg/l			Recovery: 100.0 %
PC Eff.	Total Cl_2: 0.23	MnOx: 0.08	Adj. Cl_2: 0.15	Final Cl_2: mg/l
SP Eff.	Total Cl_2: 0.02	MnOx: 0.09	Adj. Cl_2: 0.00	Final Cl_2: 0.00 mg/l

Sample	mls	Bot. #	Initial D.O.	Final D.O.	Diff (I-F)	Dil. Fact	Seed	mg/l	Result	Reported
Blank	XXX	115	8.10	7.68	0.42	N/A	N/A	N/A	0.39	Blanks
	XXX	114	8.10	7.74	0.36	N/A	N/A	N/A		Failed
Seed Correct	10	58	8.21	5.34	2.87	4/10	.40	1.14	1.14	
	15	46	8.19	4.02	4.17	4/15	.27	1.12		
	20	56	8.22	2.33	5.89	4/20	.20	1.17		
	25	51	8.26	1.01	7.25	4/25	.16	1.16		
G/G Standard	4 6	414	8.16	2.39	5.77	50	1.14	231.5	219.2	
	4 6	42	8.18	2.90	5.28	50		207.0		
PC Effluent	200	18	8.61	3.10	5.51	1.5	1.141	6.5	6.6	7
	250	611	8.63	2.08	6.55	1.2		6.4		
	275	64	8.66	1.13	7.53	1.1		7.0		
SP Effluent	200	23	8.78	6.68	2.10	1.5	1.14	1.4	1.3	<2
	250	108	8.89	6.69	2.20	1.2		1.2		
	275	34	8.92	6.54	2.38	1.1		1.3		
RC Effluent	200	33	8.87	6.72	2.15	1.5	1.14	1.5	1.6	<2
	250	366	8.96	6.19	2.77	1.2		1.9		
	275	372	8.97	6.54	2.43	1.1		1.4		
RC Effluent Duplicate	200	25	8.86	6.71	2.15	1.5	1.14	1.5	1.5	
	250	61	8.94	6.45	2.49	1.2		1.6		
	275	36	8.96	6.45	2.51	1.1		1.5		

Comments: _____

Seed Lot#: 132311 DPD Lot#: 43244
L-Glutamic Lot#: G6191120 Glucose Lot#: G5019120
Nutrient Pillows Lot #: A23602/A3160 Nitrification Inhibitor Lot#: A2027

(Revised 01/12/2024, DM)

Carbonaceous Biochemical Oxygen Demand (CBOD) Test

Directions:

1. Add the sample concentrations selected to each bottle.
2. Add dilution water to each bottle to at least 2/3 full if necessary.
3. Add seed material to each bottle.
4. Add the 0.3 mg (2 shots) of TCMP to each blank, seed control, G/G and effluent sample bottle.
5. Add the remaining amount of dilution water (do not allow an overflow).
6. From this step on, treat samples and calculations as a BOD5.

City of Hunstville Parker Creek Lab
SM 2540 D. Total Suspended Solids
Standard methods for the examination of Water & Wastewater 23rd ed.

Date of Analysis__11-6-24_____ Analyst____MPH_____

1st Drying Time:__11:10_____ [x]am [ ]pm to__12:42_____ [ ]am [x]pm
2nd Drying Time:__12:52_____ [ ]am [x]pm to___1:52_____ [ ]am [x]pm
3rd Drying Time:_____ [ ]am [ ]pm to_____ [ ]am [ ]pm

Maximum Sample Holding Time 24 Hours!
Bring Sample to Room Temperature Before Analysis!

Sample Location	Sample Date	#	mls of Sample	Weight B	Weight A	(A-B)	TSS mg/l	Final Result
				1.3780	1.3783	0.0004	0.4	
					1.3784			
BLANK	6-Nov	1	1000					
				1.3761	1.3800	0.0040	80.0	
TSS	Lot				1.3801		prepared =	
Standard	#240520	2	50				100.0	
Parker Creek				1.3911	1.4015	0.0106	212.0	
					1.4017			
Raw	11/5/2024	3	50					212.0
Parker Creek				1.3768	1.3776	0.0010	5.0	
					1.3778			
Final	11/5/2024	4	200					5.0
				1.4165	1.4235	0.0072	144.0	
South					1.4237			
Plant Raw	11/5/2024	5	50					144.0
				1.4253	1.4253	0.0006	3.0	
South					1.4259			
Plant Final	11/5/2024	6	200					3.0
Robinson Creek				1.3857	1.3939	0.0085	170.0	
					1.3942			
Raw A	11/5/2024	7	50					170.0
Robinson Creek				1.4362	1.4447	0.0090	180.0	
					1.4452			
Raw B	11/5/2024	8	50					
Robinson Creek				1.4292	1.4300	0.0012	6.0	
					1.4304			
Final A	11/5/2024	9	200					6.0
Robinson Creek				1.4238	1.4247	0.0015	7.5	
					1.4253			
Final B	11/5/2024	10	200					

City of Huntsville – Parker Creek Lab
4500 – NH_3 D. Ammonia Selective Electrode Method
Standard Methods 23rd Edition

Meter: Orion Dual Star Probe: Orion 9512HPBNWP

Date of Analysis: 11/6/25 Analyst: MPH Blank: <0.2 mg/l
Calibration Standards: 0.2 mg/L, 2.0 mg/L, 20.0 mg/L

Parker Creek Influent ***Parker Creek Effluent***

Date	%Sample	mg/l	% Sample	mg/l
11/5/25	20	18.0	100	<0.2

South Plant Influent ***South Plant Effluent***

Date	%Sample	mg/l	% Sample	mg/l
11/5/25	20	10.2	100	<0.2

Robinson Creek Influent ***Robinson Creek Effluent***

Date	%Sample	mg/l	% Sample	mg/l
11/5/25	20	19.9	100	<0.2

Date: 11/5/25
Effluent Duplicate: SP Results: <0.2 / <0.2
Influent Duplicate: SP Results: 10.2 / 10.95

NH_4^- Standard: Lot# A3130710722 Certified Value: 10.0
Analyzed Value: 9.81 % Difference: 1.92
Within Acceptance Limits: (Yes) or No

(Analyzed Value)-(Certified Value) = (0.19) x 100 = % Difference
(Analyzed Value)+(Certified Value)/2 (9.91)

E15661, 2. 10, 11-06-2024 11:23:27, CH1, AMMONI
A, ABCDE1234, MANUAL, M100, CAL_106, 11-06-2024
11:23:00, 1, 0. 200, mg/L, 142. 0, mV, 25. 0, C, 2, 2
. 00, mg/L, 91. 2, mV, 25. 0, C, 3, 20. 0, mg/L, 33. 3, m
V, 25. 0, C, -50. 80, mV/dec, -57. 90, mV/dec, -54. 4
E15661, 2, 10, 11-06-2024 11:23:27, CH1, AMMONI
A, ABCDE1234, MANUAL, M100, 10. 1, mg/L, 50. 5, mV,
25. 0, C, -57. 90, mV/dec, CAL_106, 11-06-2024 11
:23:00, 824, 12345ABCD (Manual)

City of Huntsville
Parker Creek Laboratory
Escherichia coli IDEXX System
IDEXX/SM 9223B

Analyst: MPH Collector: ZM Date of Analysis: 11/6/24

Incubation Start Date & Time: 11/6/24@10:50 Start Temperature (°C): 34.9

Results Reported By: MPH

Incubation End Date & Time: 11/7/24@10:50 End Temperature (°C): 35.1

Sample Data			Yellow Well Count		Fluorescent Well Count		Result
Sample Identification	Date Collected	Time Collected	Large	Small	Large	Small	Most Probable Number (MPN/100ml)
Blank	11/6	10:45	0	0	0	0	<1
RC1	11/6	8:27	18	27	13	4	19.5
RC2 DUP	11/6	8:27	19	22	20	4	30.1

*One duplicate (dup) needed per 10 samples analyzed.
Comments:

Analyst: AV Collector: AV Date of Analysis: 11/6/24

Incubation Start Date & Time: 11/6/24 / ~~15~~ 156 pm Start Temperature (°C): 35.3

Results Reported By: MPH

Incubation End Date & Time: 11/7/24@2:23 End Temperature (°C): 35.2

Sample Data			Yellow Well Count		Fluorescent Well Count		Result
Sample Identification	Date Collected	Time Collected	Large	Small	Large	Small	Most Probable Number (MPN/100ml)
PC Blank	11/24	150	0	0	0	0	<1
PC 1	11/24	1011	0	0	0	0	<1
PC 2 DUP	11/24	1011	0	0	0	0	<1

*One duplicate (dup) needed per 10 samples analyzed.
Comments: Analysis @ Parker Creek AKA AJ Brown WWTP

City of Huntsville
Parker Creek Laboratory
Escherichia coli IDEXX System
IDEXX/SM 9223B

Analyst: MPH Collector: SM Date of Analysis: 11/7/24

Incubation Start Date & Time: 11/7/24@10:45 Start Temperature (°C): 35.1

Results Reported By: MPH

Incubation End Date & Time: 11/8/24@1 End Temperature (°C): 35.1

Sample Data			Yellow Well Count		Fluorescent Well Count		Result
Sample Identification	Date Collected	Time Collected	Large	Small	Large	Small	Most Probable Number (MPN/100ml)
Blank	11/7	10:38	0	0	0	0	<1
RC1	11/7	8:10	47	28	39	5	81.3
RC2 DUP	11/7	8:40	49	36	37	5	73.3

*One duplicate (dup) needed per 10 samples analyzed.
Comments:

Analyst: MPH Collector: ZM Date of Analysis: 11/8/24

Incubation Start Date & Time: 11/8/24@10:52 Start Temperature (°C): 35.1

Results Reported By: ZM

Incubation End Date & Time: 11.9.24@10:52 End Temperature (°C): 35.4

Sample Data			Yellow Well Count		Fluorescent Well Count		Result
Sample Identification	Date Collected	Time Collected	Large	Small	Large	Small	Most Probable Number (MPN/100ml)
Blank	11/6	10:46	0	0	0	0	<1
RC1	11/6	8:33	45	19	2	2	4.1
RC2 DUP	11/6	8:33	46	10	2	2	4.1

*One duplicate (dup) needed per 10 samples analyzed.
Comments:

City of Huntsville Parker Creek WWTP Effluent
Total ($T\text{-}Cl_2$) & De-chlorinated ($D\text{-}Cl_2$) Residual
Hach DR 700 DPD Method 8167 (EPA 330.5) – Limit of Detection 0.010 mg/l

Month of November 2024

Date	Time		2 mg QC		Adjusted pH				Blank		Initial Cl_2				MnOx		Reported Cl_2				Analysts Initials
	Collected	Analyzed	mg/L Value	% Recovery	T1	T2	T3	D	T	D	T1	T2	T3	D	T	D	T1	T2	T3	D Permit Limit <0.10mg	
1	2:47	3:00	1.57	105.3	6.13	6.15	C	6.66	0.00	0.00	3.01	3.02	C	0.00	0.13	0.09	2.88	2.89	C	0.09	JH
2	10:47	11:00	1.57	105.3	6.59	6.61	C	6.70	0.00	0.00	2.71	2.73	C	0.09	0.14	0.04	2.57	2.59	C	0.05	JH
3	10:58	11:10	1.55	103.9	6.97	6.95	C	6.86	0.00	0.00	2.63	2.68	C	0.08	0.11	0.05	2.52	2.57	C	0.03	AV
4	7:40	7:56	1.57	105.3	6.40	6.65	C	6.88	0.00	0.00	2.76	2.95	C	0.02	0.34	0.10	2.62	2.63	C	0.08	DM
5	12:02	12:19	1.57	105.3	6.55	6.61	C	6.84	0.00	0.00	2.80	2.87	C	0.07	0.21	0.05	2.59	2.64	C	0.02	AV
6	1023	1039	1.56	104.6	6.29	6.35	C	6.89	0.00	0.00	1.93	1.60	C	0.03	0.20	0.10	1.73	1.40	C	0.07	JH
7	7:25	7:39	1.57	105.3	6.21	6.68	C	6.81	0.00	0.00	1.73	1.76	C	0.00	0.12	0.06	1.61	1.64	C	0.06	DM
8	8:55	9:10	1.54	103.2	6.71	6.75	C	6.88	0.00	0.00	3.09	3.02	C	0.00	0.43	0.07	2.66	2.59	C	0.07	DM
9	12:00	12:20	1.56	104.6	6.60	6.79	C	6.82	0.00	0.00	2.40	2.61	C	0.09	0.28	0.03	2.12	2.33	C	0.06	JH
10	7:20	7:25	1.57	105.3	6.66	6.76	C	6.99	0.00	0.00	2.56	2.46	C	0.01	0.24	0.02	2.32	2.22	C	0.01	JL
11	7:20	7:30	1.54	103.2	6.05	6.23	C	6.88	0.00	0.00	2.82	~~3.89~~	C	0.02	0.09	~~0.04~~	~~2.73~~ 2.80	~~3.14~~	C	0.02	DM
12	1:15	1:30	1.56	104.6	6.52	6.54	C	6.88	0.00	0.00	~~3.26~~	2.09	C	0.00	0.22	0.00	1.85	1.87	C	0.00	DM
13	10:31	10:52	1.56	104.6	6.30	6.33	C	6.51	0.00	0.00	1.74	1.82	C	0.00	0.08	0.00	1.66	1.74	C	0.00	AV
14	02:41	3:01	1.55	103.9	6.29	6.49	C	6.62	0.00	0.00	2.00	1.98	C	0.00	0.10	0.00	1.90	1.88	C	0.00	DM
15							C						C						C		
16																					
17																					
18																					

(Revised 03/01/2017, KK)

Laboratory Analysis Report

Total Number of Pages: 100

Job ID : 24080709

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

Client Project Name :

AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Report To :

Client Name: City of Huntsville
Attn: Daniel Martin
Client Address: 445 TX-75
City, State, Zip: Huntsville, Texas, 77320

P.O.#.: 2024-052
Sample Collected By: Daniel Martin
Date Collected: 08/06/24 - 08/07/24

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

Client Sample ID	Matrix	A&B Sample ID
AJ Brown Influent	Water	24080709.01
AJ Brown Influent	Water	24080709.02
AJ Brown Effluent	Water	24080709.03
AJ Brown Effluent	Water	24080709.04
AJ Brown WWTP	Sludge	24080709.05
NB Davidson Influent	Water	24080709.06
NB Davidson Influent	Water	24080709.07
NB Davidson Effluent	Water	24080709.08
NB Davidson Effluent	Water	24080709.09
NB Davidson WWTP	Sludge	24080709.10
Robinson Creek Influent	Water	24080709.11
Robinson Creek Influent	Water	24080709.12
Robinson Creek Effluent	Water	24080709.13
Robinson Creek Effluent	Water	24080709.14
Robinson Creek WWTP	Sludge	24080709.15

Released By: Gobinath Rangasamy
Title: Project Manager
Date: 08/21/2024

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.

ab-q210-0321

Date Received : 08/07/2024 13:45

Report Number: RPT240821143

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 24080709

Date: 8/21/2024

General Term Definition

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

Qualifier Definition

D1	Sample required dilution due to matrix effects.
D3	Sample dilution required due to insufficient sample.
H2	Initial analysis within holding time. Re-analysis was past holding time.
L1	Associated LCS and/or LCSD recovery is above acceptance limits for flagged analyte. Bias may be high.
M1	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference. "The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference."The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
M6	Sample concentration high, more than 4X spike concentration. Control limits do not apply.
R1	RPD exceeds control limits.
S6	Surrogate recovery is outside control limits due to matrix effects.
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/06/24
Time Collected: 07:20
Other Information:

Job Sample ID: 24080709.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11									
	Nonylphenol[1]	7.20	ug/L	1.02	5.1			08/08/24 21:05	GM
EPA 1631E	CVAFS								
	Mercury	12.4	ng/L	1	0.5			08/15/24 17:40	BDC
EPA 200.8	Metals by ICP/MS								
	Aluminum	0.156	mg/L	1	0.001			08/08/24 16:21	YWZ
	Antimony	BRL	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Arsenic	0.00112	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Barium	0.0746	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Beryllium	BRL	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Cadmium	BRL	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Chromium	0.00103	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Copper	0.0305	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Lead	0.00072	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Molybdenum	0.00205	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Nickel	0.00355	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Selenium	BRL	mg/L	1	0.001			08/08/24 16:21	YWZ
	Silver	BRL	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Thallium	BRL	mg/L	1	0.0005			08/08/24 16:21	YWZ
	Zinc	0.0466	mg/L	1	0.001			08/08/24 16:21	YWZ
EPA 608.3	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Aroclor 1221	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Aroclor 1232	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Aroclor 1242	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Aroclor 1248	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Aroclor 1254	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Aroclor 1260	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Total PCBs	BRL	ug/L	1.00	0.05			08/09/24 11:47	MQ
	Decachlorobiphenyl(surr)	47	%	1.00	35-129			08/09/24 11:47	MQ
	Tetrachloro-m-xylene(surr)	38.5	%	1.00	27-127			08/09/24 11:47	MQ
EPA 608.3	Organochlorine Pesticides								
	Alpha-chlordane	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Dicofol[2]	BRL	ug/L	1.00	0.05			08/09/24 20:36	MQ
	Gamma-chlordane	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	4,4-DDD	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	4,4-DDE	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	4,4-DDT	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/06/24
Time Collected: 07:20
Other Information:

Job Sample ID: 24080709.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides								
	a-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Aldrin	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	b-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Chlordane	BRL	ug/L	1.00	0.1			08/09/24 20:36	MQ
	d-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Dieldrin	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Endosulfan I	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Endosulfan II	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Endosulfan sulfate	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Endrin	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Endrin aldehyde	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Endrin ketone	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	g-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Heptachlor	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Heptachlor epoxide	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Methoxychlor	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Mirex[2]	BRL	ug/L	1.00	0.01			08/09/24 20:36	MQ
	Toxaphene	BRL	ug/L	1.00	0.1			08/09/24 20:36	MQ
	Decachlorobiphenyl(surr)	47.8	%	1.00	34-120			08/09/24 20:36	MQ
	Tetrachloro-m-xylene(surr)	52	%	1.00	24-127			08/09/24 20:36	MQ
EPA 614	Organophosphorus Pesticides								
	Chlorpyrifos[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Demeton[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Demeton-O[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Diazinon[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Dimethoate[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	EPN[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Ethion[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Guthion[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Malathion[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Methyl Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 18:29	KMN
	4-Chloro-3-Nitro-Benzene(surr)	62.8	%	1.00	15-109			08/15/24 18:29	KMN
EPA 615	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	1.00	0.095			08/09/24 19:31	MQ
	2,4-D	BRL	ug/L	1.00	0.094			08/09/24 19:31	MQ
	DCPAA(surr)	62	%	1.00	38-120			08/09/24 19:31	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/06/24
Time Collected: 07:20
Other Information:

Job Sample ID: 24080709.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,1,2-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,1-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,1-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,2-Dibromoethane	BRL	mg/L	1.00	0.006			08/09/24 01:36	PN
	1,2-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,2-Dichloropropane	BRL	mg/L	1.00	0.006			08/09/24 01:36	PN
	2-chloroethylvinyl Ether	BRL	mg/L	1.00	0.025			08/09/24 01:36	PN
	Acrolein	BRL	mg/L	1.00	0.015			08/09/24 01:36	PN
	Acrylonitrile	BRL	mg/L	1.00	0.02			08/09/24 01:36	PN
	Benzene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Bromochloromethane[2]	BRL	mg/L	1.00	0.006			08/09/24 01:36	PN
	Bromodichloromethane	BRL	mg/L	1.00	0.006			08/09/24 01:36	PN
	Bromoform	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Bromomethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Carbon tetrachloride	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Chlorobenzene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Chloroethane	BRL	mg/L	1.00	0.006			08/09/24 01:36	PN
	Chloroform	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Chloromethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	cis-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	cis-1,3-Dichloropropene	BRL	mg/L	1.00	0.006			08/09/24 01:36	PN
	Dibromochloromethane	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Ethylbenzene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	MEK	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Methylene chloride	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Tetrachloroethylene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Toluene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	trans-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	trans-1,3-Dichloropropene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Trichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	Vinyl Chloride	BRL	mg/L	1.00	0.005			08/09/24 01:36	PN
	1,2-Dichloroethane-d4(surr)	105	%	1.00	70-130			08/09/24 01:36	PN
	Dibromofluoromethane(surr)	101	%	1.00	70-130			08/09/24 01:36	PN
	p-Bromofluorobenzene(surr)	98.7	%	1.00	70-130			08/09/24 01:36	PN
	Toluene-d8(surr)	98.2	%	1.00	70-130			08/09/24 01:36	PN

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/06/24
Time Collected: 07:20
Other Information:

Job Sample ID: 24080709.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	1,2,4,5-Tetrachlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	1,2,4-Trichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	1,2-Dichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	1,2-Diphenylhydrazine as Azobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	1,3-Dichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	1,4-Dichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4,5-Trichlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4,6-Trichlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4-Dichlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4-Dimethylphenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4-Dinitrophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4-Dinitrotoluene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,6-Dimethylphenol[2]	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,6-Dinitrotoluene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2-Chloronaphthalene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2-Chlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2-Methylphenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2-Nitrophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	3- & 4-Methylphenols[2]	BRL	mg/L	1.02	0.0102		D3	08/08/24 21:05	GM
	3,3-Dichlorobenzidine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	4-Bromophenyl phenyl ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	4-Chlorophenyl phenyl ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	4-Nitrophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Acenaphthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Acenaphthylene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Anthracene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Benzidine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Benzo(a)anthracene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Benzo(a)pyrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Benzo(b)fluoranthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Benzo(g,h,i)perylene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Benzo(k)fluoranthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Bis(2-chloroethoxy) methane	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Bis(2-chloroethyl) ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/06/24
Time Collected: 07:20
Other Information:

Job Sample ID: 24080709.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	Bis(2-ethylhexyl)phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Butyl benzyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Chrysene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Dibenzo(a,h)anthracene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Diethyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Dimethyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Di-n-butyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Di-n-octyl Phthalate	BRL	mg/L	1.02	0.0051		D3,L1,V1	08/08/24 21:05	GM
	Fluoranthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Fluorene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Hexachlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Hexachlorobutadiene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Hexachlorocyclopentadiene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Hexachloroethane	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Isophorone	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	m- & p-Cresol[2]	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Naphthalene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Nitrobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Nitroso-N-diethylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	N-Nitrosodibutylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	N-Nitrosodimethylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	N-nitroso-di-n-propylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	N-Nitrosodiphenylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Pentachlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Pentachlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Phenanthrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Phenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Pyrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	Pyridine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:05	GM
	2,4,6-Tribromophenol(surr)	77.4	%	1.02	19-122			08/08/24 21:05	GM
	2-Fluorobiphenyl(surr)	78.7	%	1.02	30-115			08/08/24 21:05	GM
	2-Fluorophenol(surr)	47.3	%	1.02	15-115			08/08/24 21:05	GM
	Nitrobenzene-d5(surr)	70.4	%	1.02	23-120			08/08/24 21:05	GM
	Phenol-d6(surr)	35.5	%	1.02	10-130			08/08/24 21:05	GM
	p-Terphenyl-d14(surr)	61.9	%	1.02	18-137			08/08/24 21:05	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/06/24
Time Collected: 07:20
Other Information:

Job Sample ID: 24080709.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 4500CNC/E	Cyanide, Total								
	Cyanide	BRL	mg/L	1	0.01			08/14/24 11:51	SKC
SM 4500CN-CG	Cyanide, Amenable								
	Cyanide, Amenable	BRL	mg/L	1	0.01			08/14/24 12:31	SKC
SM 4500CN-I									
	Cyanide, Free[2]	BRL	mg/L	1	0.01			08/14/24 14:11	SKC

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Influent
Date Collected: 08/07/24
Time Collected: 08:36
Other Information:

Job Sample ID: 24080709.02
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Fluoride	0.314	mg/L	1.00	0.1			08/07/24 21:16	KPE
	Nitrate-N	0.10	mg/L	1.00	0.1			08/07/24 21:16	KPE
EPA 420.4	Phenolics (Total Phenols)								
	Phenols	BRL	mg/L	1	0.01			08/09/24 14:48	SKC
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	BRL	mg/L	1	0.01			08/07/24 16:30	JCA

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.03
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11									
	Nonylphenol[1]	BRL	ug/L	1.01	5.05		D3	08/08/24 21:28	GM
EPA 1631E	CVAFS								
	Mercury	22.8	ng/L	1	0.5			08/15/24 18:15	BDC
EPA 200.8	Metals by ICP/MS								
	Aluminum	0.229	mg/L	1	0.001			08/08/24 16:06	YWZ
	Antimony	BRL	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Arsenic	0.00143	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Barium	0.0803	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Beryllium	BRL	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Cadmium	BRL	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Chromium	0.00114	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Copper	0.0217	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Lead	0.00090	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Molybdenum	0.00276	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Nickel	0.00347	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Selenium	0.00100	mg/L	1	0.001			08/08/24 16:06	YWZ
	Silver	BRL	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Thallium	BRL	mg/L	1	0.0005			08/08/24 16:06	YWZ
	Zinc	0.0436	mg/L	1	0.001			08/08/24 16:06	YWZ
EPA 608.3	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Aroclor 1221	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Aroclor 1232	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Aroclor 1242	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Aroclor 1248	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Aroclor 1254	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Aroclor 1260	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Total PCBs	BRL	ug/L	1.00	0.05			08/09/24 12:00	MQ
	Decachlorobiphenyl(surr)	43.5	%	1.00	35-129			08/09/24 12:00	MQ
	Tetrachloro-m-xylene(surr)	35.5	%	1.00	27-127			08/09/24 12:00	MQ
EPA 608.3	Organochlorine Pesticides								
	Alpha-chlordane	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Dicofol[2]	BRL	ug/L	1.00	0.05			08/09/24 20:49	MQ
	Gamma-chlordane	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	4,4-DDD	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	4,4-DDE	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	4,4-DDT	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.03
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides								
	a-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Aldrin	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	b-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Chlordane	BRL	ug/L	1.00	0.1			08/09/24 20:49	MQ
	d-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Dieldrin	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Endosulfan I	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Endosulfan II	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Endosulfan sulfate	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Endrin	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Endrin aldehyde	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Endrin ketone	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	g-BHC	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Heptachlor	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Heptachlor epoxide	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Methoxychlor	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Mirex[2]	BRL	ug/L	1.00	0.01			08/09/24 20:49	MQ
	Toxaphene	BRL	ug/L	1.00	0.1			08/09/24 20:49	MQ
	Decachlorobiphenyl(surr)	53	%	1.00	34-120			08/09/24 20:49	MQ
	Tetrachloro-m-xylene(surr)	28.3	%	1.00	24-127			08/09/24 20:49	MQ
EPA 614	Organophosphorus Pesticides								
	Chlorpyrifos[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Demeton[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Demeton-O[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Diazinon[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Dimethoate[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	EPN[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Ethion[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Guthion[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Malathion[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Methyl Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 19:08	KMN
	4-Chloro-3-Nitro-Benzene(surr)	72.8	%	1.00	15-109			08/15/24 19:08	KMN
EPA 615	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	1.00	0.095			08/09/24 20:18	MQ
	2,4-D	BRL	ug/L	1.00	0.094			08/09/24 20:18	MQ
	DCPAA(surr)	41	%	1.00	38-120			08/09/24 20:18	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.03
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,1,2-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,1-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,1-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,2-Dibromoethane	BRL	mg/L	1.00	0.006			08/09/24 02:46	PN
	1,2-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,2-Dichloropropane	BRL	mg/L	1.00	0.006			08/09/24 02:46	PN
	2-chloroethylvinyl Ether	BRL	mg/L	1.00	0.025			08/09/24 02:46	PN
	Acrolein	BRL	mg/L	1.00	0.015			08/09/24 02:46	PN
	Acrylonitrile	BRL	mg/L	1.00	0.02			08/09/24 02:46	PN
	Benzene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Bromochloromethane[2]	BRL	mg/L	1.00	0.006			08/09/24 02:46	PN
	Bromodichloromethane	BRL	mg/L	1.00	0.006			08/09/24 02:46	PN
	Bromoform	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Bromomethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Carbon tetrachloride	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Chlorobenzene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Chloroethane	BRL	mg/L	1.00	0.006			08/09/24 02:46	PN
	Chloroform	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Chloromethane	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	cis-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	cis-1,3-Dichloropropene	BRL	mg/L	1.00	0.006			08/09/24 02:46	PN
	Dibromochloromethane	0.00586	mg/L	1.00	0.005			08/09/24 02:46	PN
	Ethylbenzene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	MEK	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Methylene chloride	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Tetrachloroethylene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Toluene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	trans-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	trans-1,3-Dichloropropene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Trichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	Vinyl Chloride	BRL	mg/L	1.00	0.005			08/09/24 02:46	PN
	1,2-Dichloroethane-d4(surr)	105	%	1.00	70-130			08/09/24 02:46	PN
	Dibromofluoromethane(surr)	97.3	%	1.00	70-130			08/09/24 02:46	PN
	p-Bromofluorobenzene(surr)	102	%	1.00	70-130			08/09/24 02:46	PN
	Toluene-d8(surr)	97.8	%	1.00	70-130			08/09/24 02:46	PN

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.03
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	1,2,4,5-Tetrachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	1,2,4-Trichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	1,2-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	1,2-Diphenylhydrazine as Azobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	1,3-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	1,4-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4,5-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4,6-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4-Dichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4-Dimethylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4-Dinitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,6-Dimethylphenol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,6-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2-Chloronaphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2-Chlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2-Methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	3- & 4-Methylphenols[2]	BRL	mg/L	1.01	0.0101		D3	08/08/24 21:28	GM
	3,3-Dichlorobenzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	4-Bromophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	4-Chlorophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	4-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Acenaphthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Acenaphthylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Benzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Benzo(a)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Benzo(a)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Benzo(b)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Benzo(g,h,i)perylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Benzo(k)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Bis(2-chloroethoxy) methane	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Bis(2-chloroethyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.03
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	Bis(2-ethylhexyl)phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Butyl benzyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Chrysene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Dibenzo(a,h)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Diethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Dimethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Di-n-butyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Di-n-octyl Phthalate	BRL	mg/L	1.01	0.00505		D3,L1,V1	08/08/24 21:28	GM
	Fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Fluorene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Hexachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Hexachlorobutadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Hexachlorocyclopentadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Hexachloroethane	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Isophorone	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	m- & p-Cresol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Naphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Nitrobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Nitroso-N-diethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	N-Nitrosodibutylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	N-Nitrosodimethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	N-nitroso-di-n-propylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	N-Nitrosodiphenylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Pentachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Pentachlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Phenanthrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Phenol	0.0199	mg/L	1.01	0.00505			08/08/24 21:28	GM
	Pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	Pyridine	BRL	mg/L	1.01	0.00505		D3	08/08/24 21:28	GM
	2,4,6-Tribromophenol(surr)	60.5	%	1.01	19-122			08/08/24 21:28	GM
	2-Fluorobiphenyl(surr)	78.5	%	1.01	30-115			08/08/24 21:28	GM
	2-Fluorophenol(surr)	35.9	%	1.01	15-115			08/08/24 21:28	GM
	Nitrobenzene-d5(surr)	72.8	%	1.01	23-120			08/08/24 21:28	GM
	Phenol-d6(surr)	27.3	%	1.01	10-130			08/08/24 21:28	GM
	p-Terphenyl-d14(surr)	78.3	%	1.01	18-137			08/08/24 21:28	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.03
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 4500CNC/E	Cyanide, Total								
	Cyanide	BRL	mg/L	1	0.01			08/14/24 11:51	SKC
SM 4500CN-CG	Cyanide, Amenable								
	Cyanide, Amenable	BRL	mg/L	1	0.01			08/14/24 12:31	SKC
SM 4500CN-I									
	Cyanide, Free[2]	BRL	mg/L	1	0.01			08/14/24 14:11	SKC

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown Effluent
Date Collected: 08/07/24
Time Collected: 08:47
Other Information:

Job Sample ID: 24080709.04
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Fluoride	0.289	mg/L	1.00	0.1			08/07/24 21:43	KPE
	Nitrate-N	1.89	mg/L	1.00	0.1			08/07/24 21:43	KPE
EPA 420.4	Phenolics (Total Phenols)								
	Phenols	BRL	mg/L	1	0.01			08/09/24 14:48	SKC
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	BRL	mg/L	1	0.01			08/07/24 16:30	JCA

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: AJ Brown WWTP
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.05
Sample Matrix Sludge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	85.1	%	1	0.1			08/08/24 15:00	BR
SW-846 6010D	Total Metals								
	Arsenic	0.766	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Cadmium	BRL	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Chromium	3.18	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Copper	62.5	mg/Kg	20	10			08/08/24 14:49	BDC
	Lead	3.40	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Molybdenum	0.936	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Nickel	2.57	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Potassium	202	mg/Kg	20	100			08/08/24 14:49	BDC
	Selenium	BRL	mg/Kg	1	0.5			08/08/24 14:47	BDC
	Zinc	65.0	mg/Kg	20	10			08/08/24 14:49	BDC
SW-846 6010D									
	Phosphorus	1680	mg/Kg	20	10			08/08/24 14:49	BDC
SW-846 7471B	Total Metals - Mercury								
	Mercury	0.115	mg/Kg	10	0.1			08/08/24 15:24	MAS

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/06/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11									
	Nonylphenol[1]	BRL	ug/L	1.02	5.1		D3	08/08/24 21:52	GM
EPA 1631E	CVAFS								
	Mercury	5.26	ng/L	1	0.5			08/15/24 17:35	BDC
EPA 200.8	Metals by ICP/MS								
	Aluminum	0.134	mg/L	1	0.001			08/08/24 16:00	YWZ
	Antimony	BRL	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Arsenic	0.00140	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Barium	0.0975	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Beryllium	BRL	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Cadmium	BRL	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Chromium	0.00065	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Copper	0.0179	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Lead	0.00055	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Molybdenum	0.00131	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Nickel	0.00219	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Selenium	BRL	mg/L	1	0.001			08/08/24 16:00	YWZ
	Silver	BRL	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Thallium	BRL	mg/L	1	0.0005			08/08/24 16:00	YWZ
	Zinc	0.0296	mg/L	1	0.001			08/08/24 16:00	YWZ
EPA 608.3	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Aroclor 1221	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Aroclor 1232	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Aroclor 1242	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Aroclor 1248	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Aroclor 1254	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Aroclor 1260	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Total PCBs	BRL	ug/L	1.00	0.05			08/09/24 12:12	MQ
	Decachlorobiphenyl(surr)	24	%	1.00	35-129		S6	08/09/24 12:12	MQ
	Tetrachloro-m-xylene(surr)	52	%	1.00	27-127			08/09/24 12:12	MQ
EPA 608.3	Organochlorine Pesticides								
	Alpha-chlordane	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Dicofol[2]	BRL	ug/L	1.00	0.05			08/09/24 21:02	MQ
	Gamma-chlordane	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	4,4-DDD	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	4,4-DDE	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	4,4-DDT	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/06/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides								
	a-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Aldrin	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	b-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Chlordane	BRL	ug/L	1.00	0.1			08/09/24 21:02	MQ
	d-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Dieldrin	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Endosulfan I	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Endosulfan II	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Endosulfan sulfate	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Endrin	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Endrin aldehyde	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Endrin ketone	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	g-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Heptachlor	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Heptachlor epoxide	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Methoxychlor	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Mirex[2]	BRL	ug/L	1.00	0.01			08/09/24 21:02	MQ
	Toxaphene	BRL	ug/L	1.00	0.1			08/09/24 21:02	MQ
	Decachlorobiphenyl(surr)	38	%	1.00	34-120			08/09/24 21:02	MQ
	Tetrachloro-m-xylene(surr)	41	%	1.00	24-127			08/09/24 21:02	MQ
EPA 614	Organophosphorus Pesticides								
	Chlorpyrifos[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Demeton[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Demeton-O[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Diazinon[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Dimethoate[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	EPN[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Ethion[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Guthion[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Malathion[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Methyl Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 20:25	KMN
	4-Chloro-3-Nitro-Benzene(surr)	72.4	%	1.00	15-109			08/15/24 20:25	KMN
EPA 615	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	1.00	0.095			08/09/24 20:42	MQ
	2,4-D	BRL	ug/L	1.00	0.094			08/09/24 20:42	MQ
	DCPAA(surr)	65.5	%	1.00	38-120			08/09/24 20:42	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/06/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,1,2-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,1-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,1-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,2-Dibromoethane	BRL	mg/L	1.00	0.006			08/09/24 03:34	PN
	1,2-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,2-Dichloropropane	BRL	mg/L	1.00	0.006			08/09/24 03:34	PN
	2-chloroethylvinyl Ether	BRL	mg/L	1.00	0.025			08/09/24 03:34	PN
	Acrolein	BRL	mg/L	1.00	0.015			08/09/24 03:34	PN
	Acrylonitrile	BRL	mg/L	1.00	0.02			08/09/24 03:34	PN
	Benzene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Bromochloromethane[2]	BRL	mg/L	1.00	0.006			08/09/24 03:34	PN
	Bromodichloromethane	BRL	mg/L	1.00	0.006			08/09/24 03:34	PN
	Bromoform	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Bromomethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Carbon tetrachloride	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Chlorobenzene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Chloroethane	BRL	mg/L	1.00	0.006			08/09/24 03:34	PN
	Chloroform	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Chloromethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	cis-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	cis-1,3-Dichloropropene	BRL	mg/L	1.00	0.006			08/09/24 03:34	PN
	Dibromochloromethane	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Ethylbenzene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	MEK	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Methylene chloride	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Tetrachloroethylene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Toluene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	trans-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	trans-1,3-Dichloropropene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Trichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	Vinyl Chloride	BRL	mg/L	1.00	0.005			08/09/24 03:34	PN
	1,2-Dichloroethane-d4(surr)	105	%	1.00	70-130			08/09/24 03:34	PN
	Dibromofluoromethane(surr)	95.6	%	1.00	70-130			08/09/24 03:34	PN
	p-Bromofluorobenzene(surr)	96.3	%	1.00	70-130			08/09/24 03:34	PN
	Toluene-d8(surr)	95.3	%	1.00	70-130			08/09/24 03:34	PN

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/06/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	1,2,4,5-Tetrachlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	1,2,4-Trichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	1,2-Dichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	1,2-Diphenylhydrazine as Azobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	1,3-Dichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	1,4-Dichlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4,5-Trichlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4,6-Trichlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4-Dichlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4-Dimethylphenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4-Dinitrophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4-Dinitrotoluene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,6-Dimethylphenol[2]	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,6-Dinitrotoluene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2-Chloronaphthalene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2-Chlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2-Methylphenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2-Nitrophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	3- & 4-Methylphenols[2]	BRL	mg/L	1.02	0.0102		D3	08/08/24 21:52	GM
	3,3-Dichlorobenzidine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	4-Bromophenyl phenyl ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	4-Chlorophenyl phenyl ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	4-Nitrophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Acenaphthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Acenaphthylene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Anthracene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Benzidine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Benzo(a)anthracene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Benzo(a)pyrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Benzo(b)fluoranthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Benzo(g,h,i)perylene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Benzo(k)fluoranthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Bis(2-chloroethoxy) methane	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Bis(2-chloroethyl) ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/06/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	Bis(2-ethylhexyl)phthalate	0.0217	mg/L	1.02	0.0051			08/08/24 21:52	GM
	Butyl benzyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Chrysene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Dibenzo(a,h)anthracene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Diethyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Dimethyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Di-n-butyl phthalate	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Di-n-octyl Phthalate	BRL	mg/L	1.02	0.0051		D3,L1,V1	08/08/24 21:52	GM
	Fluoranthene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Fluorene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Hexachlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Hexachlorobutadiene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Hexachlorocyclopentadiene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Hexachloroethane	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Isophorone	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	m- & p-Cresol[2]	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Naphthalene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Nitrobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Nitroso-N-diethylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	N-Nitrosodibutylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	N-Nitrosodimethylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	N-nitroso-di-n-propylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	N-Nitrosodiphenylamine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Pentachlorobenzene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Pentachlorophenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Phenanthrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Phenol	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Pyrene	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	Pyridine	BRL	mg/L	1.02	0.0051		D3	08/08/24 21:52	GM
	2,4,6-Tribromophenol(surr)	81.5	%	1.02	19-122			08/08/24 21:52	GM
	2-Fluorobiphenyl(surr)	79.6	%	1.02	30-115			08/08/24 21:52	GM
	2-Fluorophenol(surr)	53.4	%	1.02	15-115			08/08/24 21:52	GM
	Nitrobenzene-d5(surr)	74.1	%	1.02	23-120			08/08/24 21:52	GM
	Phenol-d6(surr)	39	%	1.02	10-130			08/08/24 21:52	GM
	p-Terphenyl-d14(surr)	55.2	%	1.02	18-137			08/08/24 21:52	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/06/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.06
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 4500CNC/E	Cyanide, Total								
	Cyanide	BRL	mg/L	1	0.01			08/14/24 11:51	SKC
SM 4500CN-CG	Cyanide, Amenable								
	Cyanide, Amenable	BRL	mg/L	1	0.01			08/14/24 12:31	SKC
SM 4500CN-I									
	Cyanide, Free[2]	BRL	mg/L	1	0.01			08/14/24 14:11	SKC

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Influent
Date Collected: 08/07/24
Time Collected: 09:20
Other Information:

Job Sample ID: 24080709.07
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Fluoride	0.371	mg/L	1.00	0.1			08/07/24 22:09	KPE
	Nitrate-N	BRL	mg/L	1.00	0.1			08/07/24 22:09	KPE
EPA 420.4	Phenolics (Total Phenols)								
	Phenols	BRL	mg/L	1	0.01			08/09/24 14:48	SKC
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	BRL	mg/L	1	0.01			08/07/24 16:30	JCA

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.08
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11									
	Nonylphenol[1]	BRL	ug/L	1.01	5.05		D3	08/08/24 22:15	GM
EPA 1631E	CVAFS								
	Mercury	5.78	ng/L	1	0.5			08/15/24 18:20	BDC
EPA 200.8	Metals by ICP/MS								
	Aluminum	0.237	mg/L	1	0.001			08/08/24 15:55	YWZ
	Antimony	BRL	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Arsenic	0.00175	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Barium	0.0946	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Beryllium	BRL	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Cadmium	BRL	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Chromium	0.00072	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Copper	0.0224	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Lead	0.00088	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Molybdenum	0.00158	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Nickel	0.00217	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Selenium	BRL	mg/L	1	0.001			08/08/24 15:55	YWZ
	Silver	0.00063	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Thallium	BRL	mg/L	1	0.0005			08/08/24 15:55	YWZ
	Zinc	0.0292	mg/L	1	0.001			08/08/24 15:55	YWZ
EPA 608.3	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Aroclor 1221	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Aroclor 1232	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Aroclor 1242	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Aroclor 1248	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Aroclor 1254	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Aroclor 1260	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Total PCBs	BRL	ug/L	1.00	0.05			08/09/24 12:24	MQ
	Decachlorobiphenyl(surr)	55.5	%	1.00	35-129			08/09/24 12:24	MQ
	Tetrachloro-m-xylene(surr)	43	%	1.00	27-127			08/09/24 12:24	MQ
EPA 608.3	Organochlorine Pesticides								
	Alpha-chlordane	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Dicofol[2]	BRL	ug/L	1.00	0.05			08/09/24 17:43	MQ
	Gamma-chlordane	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	4,4-DDD	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	4,4-DDE	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	4,4-DDT	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.08
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides								
	a-BHC	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Aldrin	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	b-BHC	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Chlordane	BRL	ug/L	1.00	0.1			08/09/24 17:43	MQ
	d-BHC	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Dieldrin	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Endosulfan I	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Endosulfan II	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Endosulfan sulfate	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Endrin	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Endrin aldehyde	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Endrin ketone	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	g-BHC	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Heptachlor	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Heptachlor epoxide	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Methoxychlor	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Mirex[2]	BRL	ug/L	1.00	0.01			08/09/24 17:43	MQ
	Toxaphene	BRL	ug/L	1.00	0.1			08/09/24 17:43	MQ
	Decachlorobiphenyl(surr)	47.8	%	1.00	34-120			08/09/24 17:43	MQ
	Tetrachloro-m-xylene(surr)	39.8	%	1.00	24-127			08/09/24 17:43	MQ
EPA 614	Organophosphorus Pesticides								
	Chlorpyrifos[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Demeton[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Demeton-O[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Diazinon[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Dimethoate[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	EPN[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Ethion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Guthion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Malathion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Methyl Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:03	KMN
	4-Chloro-3-Nitro-Benzene(surr)	68.8	%	1.00	15-109			08/15/24 21:03	KMN
EPA 615	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	1.00	0.095			08/09/24 21:54	MQ
	2,4-D	BRL	ug/L	1.00	0.094			08/09/24 21:54	MQ
	DCPAA(surr)	43.6	%	1.00	38-120			08/09/24 21:54	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.08
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,1,2-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,1-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,1-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,2-Dibromoethane	BRL	mg/L	1.00	0.006			08/09/24 04:21	PN
	1,2-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,2-Dichloropropane	BRL	mg/L	1.00	0.006			08/09/24 04:21	PN
	2-chloroethylvinyl Ether	BRL	mg/L	1.00	0.025			08/09/24 04:21	PN
	Acrolein	BRL	mg/L	1.00	0.015			08/09/24 04:21	PN
	Acrylonitrile	BRL	mg/L	1.00	0.02			08/09/24 04:21	PN
	Benzene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Bromochloromethane[2]	BRL	mg/L	1.00	0.006			08/09/24 04:21	PN
	Bromodichloromethane	0.0103	mg/L	1.00	0.006			08/09/24 04:21	PN
	Bromoform	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Bromomethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Carbon tetrachloride	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Chlorobenzene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Chloroethane	BRL	mg/L	1.00	0.006			08/09/24 04:21	PN
	Chloroform	0.0133	mg/L	1.00	0.005			08/09/24 04:21	PN
	Chloromethane	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	cis-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	cis-1,3-Dichloropropene	BRL	mg/L	1.00	0.006			08/09/24 04:21	PN
	Dibromochloromethane	0.00679	mg/L	1.00	0.005			08/09/24 04:21	PN
	Ethylbenzene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	MEK	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Methylene chloride	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Tetrachloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Toluene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	trans-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	trans-1,3-Dichloropropene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Trichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	Vinyl Chloride	BRL	mg/L	1.00	0.005			08/09/24 04:21	PN
	1,2-Dichloroethane-d4(surr)	108	%	1.00	70-130			08/09/24 04:21	PN
	Dibromofluoromethane(surr)	94.6	%	1.00	70-130			08/09/24 04:21	PN
	p-Bromofluorobenzene(surr)	98.7	%	1.00	70-130			08/09/24 04:21	PN
	Toluene-d8(surr)	96.7	%	1.00	70-130			08/09/24 04:21	PN

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.08
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	1,2,4,5-Tetrachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	1,2,4-Trichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	1,2-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	1,2-Diphenylhydrazine as Azobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	1,3-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	1,4-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4,5-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4,6-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4-Dichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4-Dimethylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4-Dinitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,6-Dimethylphenol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,6-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2-Chloronaphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2-Chlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2-Methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	3- & 4-Methylphenols[2]	BRL	mg/L	1.01	0.0101		D3	08/08/24 22:15	GM
	3,3-Dichlorobenzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	4-Bromophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	4-Chlorophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	4-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Acenaphthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Acenaphthylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Benzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Benzo(a)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Benzo(a)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Benzo(b)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Benzo(g,h,i)perylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Benzo(k)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Bis(2-chloroethoxy) methane	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Bis(2-chloroethyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.08
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	Bis(2-ethylhexyl)phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Butyl benzyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Chrysene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Dibenzo(a,h)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Diethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Dimethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Di-n-butyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Di-n-octyl Phthalate	BRL	mg/L	1.01	0.00505		D3,L1,V1	08/08/24 22:15	GM
	Fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Fluorene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Hexachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Hexachlorobutadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Hexachlorocyclopentadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Hexachloroethane	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Isophorone	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	m- & p-Cresol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Naphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Nitrobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Nitroso-N-diethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	N-Nitrosodibutylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	N-Nitrosodimethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	N-nitroso-di-n-propylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	N-Nitrosodiphenylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Pentachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Pentachlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Phenanthrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Phenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	Pyridine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:15	GM
	2,4,6-Tribromophenol(surr)	63.2	%	1.01	19-122			08/08/24 22:15	GM
	2-Fluorobiphenyl(surr)	79.5	%	1.01	30-115			08/08/24 22:15	GM
	2-Fluorophenol(surr)	38.1	%	1.01	15-115			08/08/24 22:15	GM
	Nitrobenzene-d5(surr)	74.4	%	1.01	23-120			08/08/24 22:15	GM
	Phenol-d6(surr)	30	%	1.01	10-130			08/08/24 22:15	GM
	p-Terphenyl-d14(surr)	84.6	%	1.01	18-137			08/08/24 22:15	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.08
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 4500CNC/E	Cyanide, Total								
	Cyanide	BRL	mg/L	1	0.01			08/14/24 11:51	SKC
SM 4500CN-CG	Cyanide, Amenable								
	Cyanide, Amenable	BRL	mg/L	1	0.01			08/14/24 12:31	SKC
SM 4500CN-I									
	Cyanide, Free[2]	BRL	mg/L	1	0.01			08/14/24 14:11	SKC

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson Effluent
Date Collected: 08/07/24
Time Collected: 09:25
Other Information:

Job Sample ID: 24080709.09
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Fluoride	0.356	mg/L	1.00	0.1			08/07/24 22:36	KPE
	Nitrate-N	10.8	mg/L	2.00	0.2		H2	08/09/24 11:37	KPE
EPA 420.4	Phenolics (Total Phenols)								
	Phenols	BRL	mg/L	1	0.01			08/09/24 16:19	SKC
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	BRL	mg/L	1	0.01			08/07/24 16:30	JCA

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: NB Davidson WWTP
Date Collected: 08/06/24
Time Collected: 09:40
Other Information:

Job Sample ID: 24080709.10
Sample Matrix Sludge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	82.7	%	1	0.1			08/08/24 15:00	BR
SW-846 6010D	Total Metals								
	Arsenic	8.18	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Cadmium	BRL	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Chromium	2.70	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Copper	57.2	mg/Kg	20	10			08/08/24 14:54	BDC
	Lead	3.64	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Molybdenum	0.558	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Nickel	2.45	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Potassium	320	mg/Kg	20	100			08/08/24 14:54	BDC
	Selenium	BRL	mg/Kg	1	0.5			08/08/24 14:51	BDC
	Zinc	102	mg/Kg	20	10			08/08/24 14:54	BDC
SW-846 6010D									
	Phosphorus	2250	mg/Kg	20	10			08/08/24 14:54	BDC
SW-846 7471B	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	10	0.1		D1	08/08/24 15:27	MAS

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.11
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11									
	Nonylphenol[1]	16.4	ug/L	1.01	5.05			08/08/24 22:39	GM
EPA 1631E	CVAFS								
	Mercury	81.7	ng/L	1	0.5			08/15/24 17:45	BDC
EPA 200.8	Metals by ICP/MS								
	Aluminum	0.422	mg/L	1	0.001			08/08/24 15:50	YWZ
	Antimony	0.00051	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Arsenic	0.00202	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Barium	0.0986	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Beryllium	BRL	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Cadmium	BRL	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Chromium	0.00213	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Copper	0.0379	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Lead	0.00143	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Molybdenum	0.00200	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Nickel	0.00433	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Selenium	0.00104	mg/L	1	0.001			08/08/24 15:50	YWZ
	Silver	BRL	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Thallium	BRL	mg/L	1	0.0005			08/08/24 15:50	YWZ
	Zinc	0.0979	mg/L	1	0.001			08/08/24 15:50	YWZ
EPA 608.3	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Aroclor 1221	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Aroclor 1232	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Aroclor 1242	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Aroclor 1248	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Aroclor 1254	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Aroclor 1260	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Total PCBs	BRL	ug/L	1.00	0.05			08/09/24 13:13	MQ
	Decachlorobiphenyl(surr)	5.50	%	1.00	35-129		S6	08/09/24 13:13	MQ
	Tetrachloro-m-xylene(surr)	19.5	%	1.00	27-127		S6	08/09/24 13:13	MQ
EPA 608.3	Organochlorine Pesticides								
	Alpha-chlordane	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Dicofol[2]	BRL	ug/L	10.00	0.5		D1	08/09/24 21:16	MQ
	Gamma-chlordane	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	4,4-DDD	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	4,4-DDE	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	4,4-DDT	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.11
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides								
	a-BHC	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Aldrin	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	b-BHC	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Chlordane	BRL	ug/L	10.00	1		D1	08/09/24 21:16	MQ
	d-BHC	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Dieldrin	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Endosulfan I	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Endosulfan II	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Endosulfan sulfate	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Endrin	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Endrin aldehyde	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Endrin ketone	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	g-BHC	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Heptachlor	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Heptachlor epoxide	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Methoxychlor	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Mirex[2]	BRL	ug/L	10.00	0.1		D1	08/09/24 21:16	MQ
	Toxaphene	BRL	ug/L	10.00	1		D1	08/09/24 21:16	MQ
	Decachlorobiphenyl(surr)	65	%	10.00	34-120			08/09/24 21:16	MQ
	Tetrachloro-m-xylene(surr)	82.5	%	10.00	24-127			08/09/24 21:16	MQ
EPA 614	Organophosphorus Pesticides								
	Chlorpyrifos[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Demeton[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Demeton-O[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Diazinon[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Dimethoate[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	EPN[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Ethion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Guthion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Malathion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Methyl Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 21:43	KMN
	4-Chloro-3-Nitro-Benzene(surr)	65.6	%	1.00	15-109			08/15/24 21:43	KMN
EPA 615	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	1.00	0.095			08/09/24 22:17	MQ
	2,4-D	BRL	ug/L	1.00	0.094			08/09/24 22:17	MQ
	DCPAA(surr)	50.5	%	1.00	38-120			08/09/24 22:17	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.11
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,1,2-Trichloroethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,1-Dichloroethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,1-Dichloroethylene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,2-Dibromoethane	BRL	mg/L	1.00	0.006			08/10/24 02:33	PN
	1,2-Dichloroethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,2-Dichloropropane	BRL	mg/L	1.00	0.006			08/10/24 02:33	PN
	2-chloroethylvinyl Ether	BRL	mg/L	1.00	0.025			08/10/24 02:33	PN
	Acrolein	BRL	mg/L	1.00	0.015			08/10/24 02:33	PN
	Acrylonitrile	BRL	mg/L	1.00	0.02			08/10/24 02:33	PN
	Benzene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Bromochloromethane[2]	BRL	mg/L	1.00	0.006			08/10/24 02:33	PN
	Bromodichloromethane	BRL	mg/L	1.00	0.006			08/10/24 02:33	PN
	Bromoform	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Bromomethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Carbon tetrachloride	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Chlorobenzene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Chloroethane	BRL	mg/L	1.00	0.006			08/10/24 02:33	PN
	Chloroform	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Chloromethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	cis-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	cis-1,3-Dichloropropene	BRL	mg/L	1.00	0.006			08/10/24 02:33	PN
	Dibromochloromethane	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Ethylbenzene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	MEK	0.00922	mg/L	1.00	0.005			08/10/24 02:33	PN
	Methylene chloride	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Tetrachloroethylene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Toluene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	trans-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	trans-1,3-Dichloropropene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Trichloroethylene	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	Vinyl Chloride	BRL	mg/L	1.00	0.005			08/10/24 02:33	PN
	1,2-Dichloroethane-d4(surr)	103	%	1.00	70-130			08/10/24 02:33	PN
	Dibromofluoromethane(surr)	95.2	%	1.00	70-130			08/10/24 02:33	PN
	p-Bromofluorobenzene(surr)	93.5	%	1.00	70-130			08/10/24 02:33	PN
	Toluene-d8(surr)	101	%	1.00	70-130			08/10/24 02:33	PN

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.11
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	1,2,4,5-Tetrachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	1,2,4-Trichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	1,2-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	1,2-Diphenylhydrazine as Azobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	1,3-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	1,4-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4,5-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4,6-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4-Dichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4-Dimethylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4-Dinitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,6-Dimethylphenol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,6-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2-Chloronaphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2-Chlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2-Methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	3- & 4-Methylphenols[2]	BRL	mg/L	1.01	0.0101		D3	08/08/24 22:39	GM
	3,3-Dichlorobenzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	4-Bromophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	4-Chlorophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	4-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Acenaphthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Acenaphthylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Benzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Benzo(a)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Benzo(a)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Benzo(b)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Benzo(g,h,i)perylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Benzo(k)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Bis(2-chloroethoxy) methane	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Bis(2-chloroethyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.11
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	Bis(2-ethylhexyl)phthalate	0.0334	mg/L	1.01	0.00505			08/08/24 22:39	GM
	Butyl benzyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Chrysene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Dibenzo(a,h)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Diethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Dimethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Di-n-butyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Di-n-octyl Phthalate	BRL	mg/L	1.01	0.00505		D3,L1,V1	08/08/24 22:39	GM
	Fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Fluorene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Hexachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Hexachlorobutadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Hexachlorocyclopentadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Hexachloroethane	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Isophorone	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	m- & p-Cresol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Naphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Nitrobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Nitroso-N-diethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	N-Nitrosodibutylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	N-Nitrosodimethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	N-nitroso-di-n-propylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	N-Nitrosodiphenylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Pentachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Pentachlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Phenanthrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Phenol	0.0102	mg/L	1.01	0.00505			08/08/24 22:39	GM
	Pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	Pyridine	BRL	mg/L	1.01	0.00505		D3	08/08/24 22:39	GM
	2,4,6-Tribromophenol(surr)	78	%	1.01	19-122			08/08/24 22:39	GM
	2-Fluorobiphenyl(surr)	86.1	%	1.01	30-115			08/08/24 22:39	GM
	2-Fluorophenol(surr)	50.9	%	1.01	15-115			08/08/24 22:39	GM
	Nitrobenzene-d5(surr)	75.2	%	1.01	23-120			08/08/24 22:39	GM
	Phenol-d6(surr)	38.1	%	1.01	10-130			08/08/24 22:39	GM
	p-Terphenyl-d14(surr)	76.3	%	1.01	18-137			08/08/24 22:39	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/06/24
Time Collected: 08:30
Other Information:

Job Sample ID: 24080709.11
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 4500CNC/E	Cyanide, Total								
	Cyanide	BRL	mg/L	1	0.01			08/14/24 11:51	SKC
SM 4500CN-CG	Cyanide, Amenable								
	Cyanide, Amenable	BRL	mg/L	1	0.01			08/14/24 12:31	SKC
SM 4500CN-I									
	Cyanide, Free[2]	BRL	mg/L	1	0.01			08/14/24 14:11	SKC

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Influent
Date Collected: 08/07/24
Time Collected: 09:58
Other Information:

Job Sample ID: 24080709.12
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Fluoride	0.373	mg/L	1.00	0.1			08/07/24 23:29	KPE
	Nitrate-N	0.200	mg/L	1.00	0.1			08/07/24 23:29	KPE
EPA 420.4	Phenolics (Total Phenols)								
	Phenols	BRL	mg/L	1	0.01			08/09/24 14:48	SKC
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	BRL	mg/L	1	0.01			08/07/24 16:30	JCA

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.13
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11									
	Nonylphenol[1]	BRL	ug/L	1.01	5.05		D3	08/08/24 23:02	GM
EPA 1631E	CVAFS								
	Mercury	2.48	ng/L	1	0.5			08/15/24 18:10	BDC
EPA 200.8	Metals by ICP/MS								
	Aluminum	0.0471	mg/L	1	0.001			08/08/24 15:45	YWZ
	Antimony	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Arsenic	0.00266	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Barium	0.0570	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Beryllium	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Cadmium	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Chromium	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Copper	0.00960	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Lead	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Molybdenum	0.00204	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Nickel	0.00257	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Selenium	BRL	mg/L	1	0.001			08/08/24 15:45	YWZ
	Silver	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Thallium	BRL	mg/L	1	0.0005			08/08/24 15:45	YWZ
	Zinc	0.0294	mg/L	1	0.001			08/08/24 15:45	YWZ
EPA 608.3	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Aroclor 1221	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Aroclor 1232	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Aroclor 1242	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Aroclor 1248	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Aroclor 1254	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Aroclor 1260	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Total PCBs	BRL	ug/L	1.00	0.05			08/09/24 13:25	MQ
	Decachlorobiphenyl(surr)	47	%	1.00	35-129			08/09/24 13:25	MQ
	Tetrachloro-m-xylene(surr)	44	%	1.00	27-127			08/09/24 13:25	MQ
EPA 608.3	Organochlorine Pesticides								
	Alpha-chlordane	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Dicofol[2]	BRL	ug/L	1.00	0.05			08/09/24 21:29	MQ
	Gamma-chlordane	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	4,4-DDD	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	4,4-DDE	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	4,4-DDT	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.13
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 608.3	Organochlorine Pesticides								
	a-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Aldrin	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	b-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Chlordane	BRL	ug/L	1.00	0.1			08/09/24 21:29	MQ
	d-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Dieldrin	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Endosulfan I	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Endosulfan II	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Endosulfan sulfate	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Endrin	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Endrin aldehyde	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Endrin ketone	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	g-BHC	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Heptachlor	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Heptachlor epoxide	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Methoxychlor	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Mirex[2]	BRL	ug/L	1.00	0.01			08/09/24 21:29	MQ
	Toxaphene	BRL	ug/L	1.00	0.1			08/09/24 21:29	MQ
	Decachlorobiphenyl(surr)	11	%	1.00	34-120		S6	08/09/24 21:29	MQ
	Tetrachloro-m-xylene(surr)	46	%	1.00	24-127			08/09/24 21:29	MQ
EPA 614	Organophosphorus Pesticides								
	Chlorpyrifos[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Demeton[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Demeton-O[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Diazinon[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Dimethoate[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	EPN[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Ethion[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Guthion[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Malathion[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Methyl Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	Parathion[2]	BRL	ug/L	1.00	0.2			08/15/24 23:35	KMN
	4-Chloro-3-Nitro-Benzene(surr)	63.2	%	1.00	15-109			08/15/24 23:35	KMN
EPA 615	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	1.00	0.095			08/09/24 22:41	MQ
	2,4-D	BRL	ug/L	1.00	0.094			08/09/24 22:41	MQ
	DCPAA(surr)	29.9	%	1.00	38-120		S6	08/09/24 22:41	MQ

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.13
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 624.1	Volatile Organic Compounds								
	1,1,1-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,1,2-Trichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,1-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,1-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,2-Dibromoethane	BRL	mg/L	1.00	0.006			08/09/24 04:44	PN
	1,2-Dichloroethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,2-Dichloropropane	BRL	mg/L	1.00	0.006			08/09/24 04:44	PN
	2-chloroethylvinyl Ether	BRL	mg/L	1.00	0.025			08/09/24 04:44	PN
	Acrolein	BRL	mg/L	1.00	0.015			08/09/24 04:44	PN
	Acrylonitrile	BRL	mg/L	1.00	0.02			08/09/24 04:44	PN
	Benzene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Bromochloromethane[2]	BRL	mg/L	1.00	0.006			08/09/24 04:44	PN
	Bromodichloromethane	BRL	mg/L	1.00	0.006			08/09/24 04:44	PN
	Bromoform	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Bromomethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Carbon tetrachloride	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Chlorobenzene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Chloroethane	BRL	mg/L	1.00	0.006			08/09/24 04:44	PN
	Chloroform	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Chloromethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	cis-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	cis-1,3-Dichloropropene	BRL	mg/L	1.00	0.006			08/09/24 04:44	PN
	Dibromochloromethane	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Ethylbenzene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	MEK	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Methylene chloride	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Tetrachloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Toluene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	trans-1,2-Dichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	trans-1,3-Dichloropropene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Trichloroethylene	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	Vinyl Chloride	BRL	mg/L	1.00	0.005			08/09/24 04:44	PN
	1,2-Dichloroethane-d4(surr)	112	%	1.00	70-130			08/09/24 04:44	PN
	Dibromofluoromethane(surr)	100	%	1.00	70-130			08/09/24 04:44	PN
	p-Bromofluorobenzene(surr)	100	%	1.00	70-130			08/09/24 04:44	PN
	Toluene-d8(surr)	96	%	1.00	70-130			08/09/24 04:44	PN

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.13
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	1,2,4,5-Tetrachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	1,2,4-Trichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	1,2-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	1,2-Diphenylhydrazine as Azobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	1,3-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	1,4-Dichlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4,5-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4,6-Trichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4-Dichlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4-Dimethylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4-Dinitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,6-Dimethylphenol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,6-Dinitrotoluene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2-Chloronaphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2-Chlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2-Methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	3- & 4-Methylphenols[2]	BRL	mg/L	1.01	0.0101		D3	08/08/24 23:02	GM
	3,3-Dichlorobenzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	4,6-Dinitro-2-methylphenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	4-Bromophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	4-Chlorophenyl phenyl ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	4-Nitrophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Acenaphthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Acenaphthylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Benzidine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Benzo(a)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Benzo(a)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Benzo(b)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Benzo(g,h,i)perylene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Benzo(k)fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Bis(2-chloroethoxy) methane	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Bis(2-chloroethyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Bis(2-chloroisopropyl) ether	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.13
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 625.1									
	Bis(2-ethylhexyl)phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Butyl benzyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Chrysene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Dibenzo(a,h)anthracene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Diethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Dimethyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Di-n-butyl phthalate	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Di-n-octyl Phthalate	BRL	mg/L	1.01	0.00505		D3,L1,V1	08/08/24 23:02	GM
	Fluoranthene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Fluorene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Hexachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Hexachlorobutadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Hexachlorocyclopentadiene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Hexachloroethane	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Indeno(1,2,3-cd)pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Isophorone	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	m- & p-Cresol[2]	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Naphthalene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Nitrobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Nitroso-N-diethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	N-Nitrosodibutylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	N-Nitrosodimethylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	N-nitroso-di-n-propylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	N-Nitrosodiphenylamine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Pentachlorobenzene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Pentachlorophenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Phenanthrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Phenol	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Pyrene	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	Pyridine	BRL	mg/L	1.01	0.00505		D3	08/08/24 23:02	GM
	2,4,6-Tribromophenol(surr)	65.9	%	1.01	19-122			08/08/24 23:02	GM
	2-Fluorobiphenyl(surr)	86.7	%	1.01	30-115			08/08/24 23:02	GM
	2-Fluorophenol(surr)	39.4	%	1.01	15-115			08/08/24 23:02	GM
	Nitrobenzene-d5(surr)	78.9	%	1.01	23-120			08/08/24 23:02	GM
	Phenol-d6(surr)	31.5	%	1.01	10-130			08/08/24 23:02	GM
	p-Terphenyl-d14(surr)	93.2	%	1.01	18-137			08/08/24 23:02	GM

LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 08:00
Other Information:

Job Sample ID: 24080709.13
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 4500CNC/E	Cyanide, Total								
	Cyanide	BRL	mg/L	1	0.01			08/14/24 11:51	SKC
SM 4500CN-CG	Cyanide, Amenable								
	Cyanide, Amenable	BRL	mg/L	1	0.01			08/14/24 12:31	SKC
SM 4500CN-I									
	Cyanide, Free[2]	BRL	mg/L	1	0.01			08/14/24 14:11	SKC

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek Effluent
Date Collected: 08/07/24
Time Collected: 10:05
Other Information:

Job Sample ID: 24080709.14
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Fluoride	0.319	mg/L	1.00	0.1			08/07/24 23:55	KPE
	Nitrate-N	28.8	mg/L	5.00	0.5		H2	08/09/24 12:00	KPE
EPA 420.4	Phenolics (Total Phenols)								
	Phenols	BRL	mg/L	1	0.01			08/09/24 14:50	SKC
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	BRL	mg/L	1	0.01			08/07/24 16:30	JCA

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LABORATORY TEST RESULTS

Job ID : 24080709

Date 8/21/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Client Sample ID: Robinson Creek WWTP
Date Collected: 08/06/24
Time Collected: 10:40
Other Information:

Job Sample ID: 24080709.15
Sample Matrix Sludge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540G	% Moisture								
	% Moisture	79.1	%	1	0.1			08/08/24 15:00	BR
SW-846 6010D	Total Metals								
	Arsenic	1.20	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Cadmium	BRL	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Chromium	3.75	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Copper	70.2	mg/Kg	20	10			08/08/24 14:59	BDC
	Lead	3.70	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Molybdenum	1.42	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Nickel	3.17	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Potassium	325	mg/Kg	20	100			08/08/24 14:59	BDC
	Selenium	BRL	mg/Kg	1	0.5			08/08/24 14:56	BDC
	Zinc	179	mg/Kg	20	10			08/08/24 14:59	BDC
SW-846 6010D									
	Phosphorus	2580	mg/Kg	40	20			08/09/24 10:15	BDC
SW-846 7471B	Total Metals - Mercury								
	Mercury	BRL	mg/Kg	10	0.1		D1	08/08/24 15:30	MAS

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[1]-Parameter is not accredited.

[2]-Parameter not available for accreditation.

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

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

QC Batch ID : Qb240808132 **Created Date :** 08/08/24 **Created By :** BChristofer

Samples in This QC Batch : 24080709.05,10,15

Digestion : PB24080838 **Prep Method :** SW-846 3050B **Prep Date :** 08/08/24 10:30 **Prep By :** M_Gonzalez

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Aluminum	7429-90-5T	BRL	mg/Kg	1	0.5		
Arsenic	7440-38-2T	BRL	mg/Kg	1	0.5		
Cadmium	7440-43-9	BRL	mg/Kg	1	0.5		
Chromium	7440-47-3T	BRL	mg/Kg	1	0.5		
Copper	7440-50-8	BRL	mg/Kg	1	0.5		
Lead	7439-92-1T	BRL	mg/Kg	1	0.5		
Molybdenum	7439-98-7	BRL	mg/Kg	1	0.5		
Nickel	7440-02-0	BRL	mg/Kg	1	0.5		
Potassium	7440-09-7	BRL	mg/Kg	1	5		
Selenium	7782-49-2	BRL	mg/Kg	1	0.5		
Zinc	7440-66-6T	BRL	mg/Kg	1	0.5		

QC Type: Duplicate

QC Sample ID: 24080709.05

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Aluminum	1650	1640	mg/Kg	0.6	20		
Arsenic	0.736	0.766	mg/Kg	4	20		
Cadmium	BRL	BRL	mg/Kg	0	20		
Chromium	3.17	3.18	mg/Kg	0.3	20		
Copper	62.9	62.5	mg/Kg	0.6	20		
Lead	3.40	3.40	mg/Kg	0.0	20		
Molybdenum	1.20	0.936	mg/Kg	24.7	20		R1
Nickel	2.55	2.57	mg/Kg	0.8	20		
Potassium	202	202	mg/Kg	0.0	20		
Selenium	BRL	BRL	mg/Kg	0	20		
Zinc	65.6	65.0	mg/Kg	0.9	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Aluminum	25	25.8	103	25	26.1	104	1.2	20	80-119	
Arsenic	25	26.6	107	25	26.8	107	0.6	20	80-111	
Cadmium	25	25.3	101	25	25.5	102	0.8	20	80-113	
Chromium	25	25.2	101	25	25.5	102	1.1	20	80-120	
Copper	25	25.4	102	25	25.6	103	0.8	20	80-120	
Lead	25	25.3	101	25	25.4	102	0.3	20	80-112	

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Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

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

QC Batch ID : Qb240808132 **Created Date :** 08/08/24 **Created By :** BChristofer

Samples in This QC Batch : 24080709.05,10,15

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
Molybdenum	25	25.5	102	25	26.0	104	1.9	20	80-116	
Nickel	25	25.2	101	25	25.4	102	0.9	20	80-115	
Potassium	250	261	104	250	263	105	0.7	20	80-116	
Selenium	25	25.3	101	25	25.6	102	1.1	20	80-120	
Zinc	25	24.5	98.1	25	24.8	99.3	1.1	20	80-113	

QC Type: MS and MSD
QC Sample ID: 24080709.05

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Aluminum	1640	25	2280	2562						75-125	M6
Arsenic	0.766	25	24.5	94.8						75-125	
Cadmium	BRL	25	23.4	93.6						75-125	
Chromium	3.18	25	27.4	96.9						75-125	
Copper	62.5	25	87.4	99.7						75-125	
Lead	3.40	25	27.7	97.4						75-125	
Molybdenum	0.936	25	25.8	99.4						75-125	
Nickel	2.57	25	27.2	98.6						75-125	
Potassium	202	250	457	102						75-125	
Selenium	0.648	25	26.3	103						75-125	
Zinc	65.0	25	91.8	107						75-125	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

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

QC Batch ID : Qb240808133 **Created Date :** 08/08/24 **Created By :** BChristofer

Samples in This QC Batch : 24080709.05,10,15

Digestion : PB24080839 **Prep Method :** SW-846 3050B **Prep Date :** 08/08/24 10:30 **Prep By :** M_Gonzalez

QC Type: Method Blank

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

QC Type: Duplicate

QC Sample ID: 24080709.05

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Phosphorus	1690.141	1680	mg/Kg	0.6	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Phosphorus	25	26.065	104	25	26.218	105	0.6	20	80-114	

QC Type: MS and MSD

QC Sample ID: 24080709.05

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phosphorus	1680	25	1680	-31.52000						75-125	M6

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **ASTM D7065-11** **Reporting Units :** **ug/L**

QC Batch ID : Qb240808136 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Extraction : PB24080835 **Prep Method :** ASTM D7065-11 **Prep Date :** 08/08/24 09:45 **Prep By :** MMuteen

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Nonylphenol	84852-15-3	BRL	ug/L	1.00	5		
Terphenyl-d14(surr)		84.3	%	1.00	18-137		

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
Nonylphenol	50	45.5	90.9	50	45.7	91.5	0.5	13	63.1-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **EPA 625.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb240808137 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Extraction : PB24080835 **Prep Method :** EPA 625.1 **Prep Date :** 08/08/24 09:45 **Prep By :** MMuteen

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
1,2,4,5-Tetrachlorobenzene	95-94-3	BRL	mg/L	1.00	0.005	
1,2,4-Trichlorobenzene	120-82-1	BRL	mg/L	1.00	0.005	
1,2-Dichlorobenzene	95-50-1	BRL	mg/L	1.00	0.005	
1,2-Diphenylhydrazine as A	122-66-7	BRL	mg/L	1.00	0.005	
1,3-Dichlorobenzene	541-73-1	BRL	mg/L	1.00	0.005	
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1.00	0.005	
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1.00	0.005	
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1.00	0.005	
2,4-Dichlorophenol	120-83-2	BRL	mg/L	1.00	0.005	
2,4-Dimethylphenol	105-67-9	BRL	mg/L	1.00	0.005	
2,4-Dinitrophenol	51-28-5	BRL	mg/L	1.00	0.005	
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1.00	0.005	
2,6-Dimethylphenol	576-26-1	BRL	mg/L	1.00	0.005	
2,6-Dinitrotoluene	606-20-2	BRL	mg/L	1.00	0.005	
2-Chloronaphthalene	91-58-7	BRL	mg/L	1.00	0.005	
2-Chlorophenol	95-57-8	BRL	mg/L	1.00	0.005	
2-Methylphenol	95-48-7	BRL	mg/L	1.00	0.005	
2-Nitrophenol	88-75-5	BRL	mg/L	1.00	0.005	
3- & 4-Methylphenols	65794-96-9	BRL	mg/L	1.00	0.01	
3,3-Dichlorobenzidine	91-94-1	BRL	mg/L	1.00	0.005	
4,6-Dinitro-2-methylphenol	534-52-1	BRL	mg/L	1.00	0.005	
4-Bromophenyl phenyl ethe	101-55-3	BRL	mg/L	1.00	0.005	
4-Chlorophenyl phenyl ethe	7005-72-3	BRL	mg/L	1.00	0.005	
4-Nitrophenol	100-02-7	BRL	mg/L	1.00	0.005	
Acenaphthene	83-32-9	BRL	mg/L	1.00	0.005	
Acenaphthylene	208-96-8	BRL	mg/L	1.00	0.005	
Anthracene	120-12-7	BRL	mg/L	1.00	0.005	
Benzidine	92-87-5	BRL	mg/L	1.00	0.005	
Benzo(a)anthracene	56-55-3	BRL	mg/L	1.00	0.005	
Benzo(a)pyrene	50-32-8	BRL	mg/L	1.00	0.005	
Benzo(b)fluoranthene	205-99-2	BRL	mg/L	1.00	0.005	
Benzo(g,h,i)perylene	191-24-2	BRL	mg/L	1.00	0.005	
Benzo(k)fluoranthene	207-08-9	BRL	mg/L	1.00	0.005	
Bis(2-chloroethoxy) methan	111-91-1	BRL	mg/L	1.00	0.005	
Bis(2-chloroethyl) ether	111-44-4	BRL	mg/L	1.00	0.005	
Bis(2-chloroisopropyl) ether	108-60-1	BRL	mg/L	1.00	0.005	
Bis(2-ethylhexyl)phthalate	117-81-7	BRL	mg/L	1.00	0.005	
Butyl benzyl phthalate	85-68-7	BRL	mg/L	1.00	0.005	
Chrysene	218-01-9	BRL	mg/L	1.00	0.005	
Dibenzo(a,h)anthracene	53-70-3	BRL	mg/L	1.00	0.005	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **EPA 625.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb240808137 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Diethyl phthalate	84-66-2	BRL	mg/L	1.00	0.005	
Dimethyl phthalate	131-11-3	BRL	mg/L	1.00	0.005	
Di-n-butyl phthalate	84-74-2	BRL	mg/L	1.00	0.005	
Di-n-octyl Phthalate	117-84-0	BRL	mg/L	1.00	0.005	
Fluoranthene	206-44-0	BRL	mg/L	1.00	0.005	
Fluorene	86-73-7	BRL	mg/L	1.00	0.005	
Hexachlorobenzene	118-74-1	BRL	mg/L	1.00	0.005	
Hexachlorobutadiene	87-68-3	BRL	mg/L	1.00	0.005	
Hexachlorocyclopentadiene	77-47-4	BRL	mg/L	1.00	0.005	
Hexachloroethane	67-72-1	BRL	mg/L	1.00	0.005	
Indeno(1,2,3-cd)pyrene	193-39-5	BRL	mg/L	1.00	0.005	
Isophorone	78-59-1	BRL	mg/L	1.00	0.005	
m- & p-Cresol	65794-96-9	BRL	mg/L	1.00	0.005	
Naphthalene	91-20-3	BRL	mg/L	1.00	0.005	
Nitrobenzene	98-95-3	BRL	mg/L	1.00	0.005	
Nitroso-N-diethylamine	55-18-5	BRL	mg/L	1.00	0.005	
N-Nitrosodibutylamine	924-16-3	BRL	mg/L	1.00	0.005	
N-Nitrosodimethylamine	62-75-9	BRL	mg/L	1.00	0.005	
N-nitroso-di-n-propylamine	621-64-7	BRL	mg/L	1.00	0.005	
N-Nitrosodiphenylamine	86-30-6	BRL	mg/L	1.00	0.005	
Pentachlorobenzene	608-93-5	BRL	mg/L	1.00	0.005	
Pentachlorophenol	87-86-5	BRL	mg/L	1.00	0.005	
Phenanthrene	85-01-8	BRL	mg/L	1.00	0.005	
Phenol	108-95-2	BRL	mg/L	1.00	0.005	
Pyrene	129-00-0	BRL	mg/L	1.00	0.005	
Pyridine	110-86-1	BRL	mg/L	1.00	0.005	
2-Fluorophenol(surr)	367-12-4	37.4	%	1.00	15-115	
Phenol-d6(surr)	13127-88-3	29.4	%	1.00	10-130	
Nitrobenzene-d5(surr)	4165-60-0	64.3	%	1.00	23-120	
2-Fluorobiphenyl(surr)	321-60-8	70.3	%	1.00	30-115	
2,4,6-Tribromophenol(surr)	118-79-6	61	%	1.00	19-122	
p-Terphenyl-d14(surr)	1718-51-0	84.3	%	1.00	18-137	

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
1,2,4,5-Tetrachlorobenzene	0.05	0.0293	58.6	0.05	0.0298	59.7	1.7	30	50.9-96.1	
1,2,4-Trichlorobenzene	0.05	0.0296	59.2	0.05	0.0291	58.2	1.6	30	57-130	
1,2-Dichlorobenzene	0.05	0.0298	59.7	0.05	0.0309	61.8	3.5	30	36.5-81.7	
1,2-Diphenylhydrazine as A	0.05	0.0424	84.8	0.05	0.0423	84.5	0.2	30	47.1-113	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **EPA 625.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb240808137 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

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
1,3-Dichlorobenzene	0.05	0.0303	60.7	0.05	0.0305	61	0.5	30	36.3-79.1	
1,4-Dichlorobenzene	0.05	0.0298	59.5	0.05	0.0300	60.1	0.8	30	36-79.2	
2,4,5-Trichlorophenol	0.05	0.0429	85.9	0.05	0.0441	88.3	2.7	30	35.4-117	
2,4,6-Trichlorophenol	0.05	0.0428	85.7	0.05	0.0434	86.8	1.3	30	52-118	
2,4-Dichlorophenol	0.05	0.0407	81.4	0.05	0.0426	85.1	4.6	30	53-116	
2,4-Dimethylphenol	0.1	0.0832	83.2	0.1	0.0855	85.5	2.8	30	42-120	
2,4-Dinitrophenol	0.05	0.0223	44.7	0.05	0.0234	46.9	4.6	30	10-143	
2,4-Dinitrotoluene	0.05	0.0409	81.8	0.05	0.0422	84.5	3.2	30	51.2-127	
2,6-Dimethylphenol	0.05	0.0453	90.6	0.05	0.0452	90.4	0.2	30	58.6-141	
2,6-Dinitrotoluene	0.05	0.0442	88.4	0.05	0.0454	90.9	2.7	30	68-118	
2-Chloronaphthalene	0.05	0.048	96	0.05	0.049	98	2.1	30	65-120	
2-Chlorophenol	0.05	0.0371	74.2	0.05	0.0372	74.3	0.3	30	36-120	
2-Methylphenol	0.05	0.0382	76.3	0.05	0.0378	75.6	1	30	44-103	
2-Nitrophenol	0.05	0.0404	80.8	0.05	0.0419	83.8	3.6	30	45-119	
3- & 4-Methylphenols	0.1	0.0693	69.3	0.1	0.0697	69.7	0.6	30	35.4-89.2	
3,3-Dichlorobenzidine	0.05	0.0407	81.5	0.05	0.0413	82.6	1.4	30	48.2-116	
4,6-Dinitro-2-methylphenol	0.05	0.0282	56.3	0.05	0.0300	59.9	6.3	30	53-130	
4-Bromophenyl phenyl ethe	0.05	0.0427	85.4	0.05	0.0425	84.9	0.5	30	65-112	
4-Chlorophenyl phenyl ethe	0.05	0.0404	80.9	0.05	0.0406	81.3	0.4	30	56.3-108	
4-Nitrophenol	0.05	0.0336	67.2	0.05	0.0353	70.6	4.9	30	13-129	
Acenaphthene	0.05	0.0369	73.7	0.05	0.0384	76.8	4.1	30	60-132	
Acenaphthylene	0.05	0.0375	74.9	0.05	0.0381	76.1	1.7	30	54-126	
Anthracene	0.05	0.0424	84.7	0.05	0.0426	85.3	0.5	30	53.5-112	
Benzidine	0.05	0.0238	47.6	0.05	0.0249	49.8	4.6	30	24.8-140	
Benzo(a)anthracene	0.05	0.0453	90.7	0.05	0.0462	92.4	1.9	30	50.7-122	
Benzo(a)pyrene	0.05	0.0419	83.9	0.05	0.0428	85.7	2	30	41.3-146	
Benzo(b)fluoranthene	0.05	0.0483	96.6	0.05	0.0488	97.5	1	30	35.2-134	
Benzo(g,h,i)perylene	0.05	0.0457	91.3	0.05	0.0452	90.5	1	30	32-131	
Benzo(k)fluoranthene	0.05	0.0390	77.9	0.05	0.0397	79.3	1.9	30	35.3-128	
Bis(2-chloroethoxy) methan	0.05	0.0420	83.9	0.05	0.0434	86.7	3.4	30	49-165	
Bis(2-chloroethyl) ether	0.05	0.0354	70.9	0.05	0.0341	68.3	3.8	30	43-126	
Bis(2-chloroisopropyl) ether	0.05	0.0316	63.1	0.05	0.0325	65	3	30	63-139	
Bis(2-ethylhexyl)phthalate	0.05	0.0608	122	0.05	0.0627	125	3.2	30	44.2-129	
Butyl benzyl phthalate	0.05	0.0520	104	0.05	0.0540	108	3.8	30	52.1-133	
Chrysene	0.05	0.0444	88.8	0.05	0.0452	90.4	1.8	30	57.5-119	
Dibenzo(a,h)anthracene	0.05	0.0448	89.7	0.05	0.0447	89.4	0.3	30	36.2-136	
Diethyl phthalate	0.05	0.0467	93.3	0.05	0.0474	94.9	1.6	30	50.7-120	
Dimethyl phthalate	0.05	0.0432	86.3	0.05	0.0445	88.9	3	30	55.9-112	
Di-n-butyl phthalate	0.05	0.0509	102	0.05	0.0514	103	1	30	54-120	
Di-n-octyl Phthalate	0.05	0.0695	139	0.05	0.0704	141	1.3	30	45.9-125	L1
Fluoranthene	0.05	0.0446	89.1	0.05	0.0449	89.8	0.7	30	48.9-121	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **EPA 625.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb240808137 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

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
Fluorene	0.05	0.0412	82.5	0.05	0.0420	83.9	1.8	30	70-113	
Hexachlorobenzene	0.05	0.0410	82	0.05	0.0417	83.4	1.6	30	52.7-107	
Hexachlorobutadiene	0.05	0.0287	57.4	0.05	0.0302	60.5	5	30	38-120	
Hexachlorocyclopentadiene	0.05	0.0232	46.4	0.05	0.0245	48.9	5.5	30	12.7-170	
Hexachlorocyclopentadiene	0.05	0.0232	46.4	0.05	0.0245	48.9	5.5	30	12.7-171	
Hexachloroethane	0.05	0.0292	58.5	0.05	0.0294	58.9	0.5	30	55-120	
Indeno(1,2,3-cd)pyrene	0.05	0.0418	83.7	0.05	0.0422	84.4	0.9	30	40.7-132	
Isophorone	0.05	0.0334	66.7	0.05	0.0339	67.9	1.6	30	47-180	
m- & p-Cresol	0.1	0.0693	69.3	0.1	0.0697	69.7	0.6	30	36.5-87.1	
Naphthalene	0.05	0.0314	62.7	0.05	0.0322	64.5	2.6	30	36-120	
Nitrobenzene	0.05	0.0401	80.1	0.05	0.0389	77.8	3	30	54-158	
Nitroso-N-diethylamine	0.05	0.0376	75.2	0.05	0.0372	74.3	1.1	30	47.1-100	
N-Nitrosodibutylamine	0.05	0.0378	75.7	0.05	0.0390	78.1	3	30	47.3-102	
N-Nitrosodimethylamine	0.05	0.0277	55.4	0.05	0.0274	54.7	1.1	30	33.1-74.1	
N-nitroso-di-n-propylamine	0.05	0.0400	80	0.05	0.0401	80.1	0.2	30	14-198	
N-Nitrosodiphenylamine	0.05	0.0426	85.2	0.05	0.0436	87.3	2.3	30	56.2-110	
Pentachlorobenzene	0.05	0.0383	76.7	0.05	0.0396	79.3	3.2	30	56.1-101	
Pentachlorophenol	0.05	0.0368	73.6	0.05	0.0383	76.6	4	30	38-135	
Phenanthrene	0.05	0.0424	84.9	0.05	0.0421	84.3	0.8	30	65-120	
Phenol	0.05	0.0239	47.8	0.05	0.0195	39	20.4	30	17-120	
Pyrene	0.05	0.0439	87.8	0.05	0.0448	89.7	2	30	70-120	
Pyridine	0.05	0.0212	42.5	0.05	0.0213	42.6	0.3	30	33-158	

QC Type: MS and MSD
QC Sample ID: 24080698.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,2,4,5-Tetrachlorobenzene	BRL	0.052	0.0289	55.6						35-121	
1,2,4-Trichlorobenzene	BRL	0.052	0.0295	56.7						29-116	
1,2-Dichlorobenzene	BRL	0.052	0.0307	59						32-111	
1,2-Diphenylhydrazine as A	BRL	0.052	0.0431	82.9						47-116	
1,3-Dichlorobenzene	BRL	0.052	0.0310	59.7						28-110	
1,4-Dichlorobenzene	BRL	0.052	0.0308	59.2						29-112	
2,4,5-Trichlorophenol	BRL	0.052	0.0350	67.3						53-117	
2,4,6-Trichlorophenol	BRL	0.052	0.0352	67.6						50-120	
2,4-Dichlorophenol	BRL	0.052	0.0341	65.6						47-111	
2,4-Dimethylphenol	BRL	0.103	0.0850	82.5						32-105	
2,4-Dinitrophenol	BRL	0.052	0.0211	40.5						23-104	
2,4-Dinitrotoluene	BRL	0.052	0.0419	80.6						57-120	
2,6-Dimethylphenol	BRL	0.052	0.0302	58						58.6-141	M2

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **EPA 625.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb240808137 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

QC Type: MS and MSD
QC Sample ID: 24080698.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,6-Dinitrotoluene	BRL	0.052	0.0469	90.3						57-120	
2-Chloronaphthalene	BRL	0.052	0.0318	61.1						40-116	
2-Chlorophenol	BRL	0.052	0.0317	61						38-102	
2-Methylphenol	BRL	0.052	0.0399	76.6						30-100	
2-Nitrophenol	BRL	0.052	0.0350	67.3						47-109	
3- & 4-Methylphenols	BRL	0.103	0.0661	64.2						29-100	
3,3-Dichlorobenzidine	BRL	0.052	0.0419	80.5						27-120	
4,6-Dinitro-2-methylphenol	BRL	0.052	0.0239	45.9						32-132	
4-Bromophenyl phenyl ethe	BRL	0.052	0.0425	81.8						55-110	
4-Chlorophenyl phenyl ethe	BRL	0.052	0.0400	77						53-110	
4-Nitrophenol	BRL	0.052	0.0322	61.9						15-105	
Acenaphthene	BRL	0.052	0.0379	72.9						47-105	
Acenaphthylene	BRL	0.052	0.0383	73.6						41-108	
Anthracene	BRL	0.052	0.0431	82.8						57-112	
Benzidine	BRL	0.052	0.0183	35.2						7-126	
Benzo(a)anthracene	BRL	0.052	0.0468	90						58-115	
Benzo(a)pyrene	BRL	0.052	0.0430	82.8						54-110	
Benzo(b)fluoranthene	BRL	0.052	0.0472	90.9						53-117	
Benzo(g,h,i)perylene	BRL	0.052	0.0451	86.7						50-110	
Benzo(k)fluoranthene	BRL	0.052	0.0391	75.3						57-110	
Bis(2-chloroethoxy) methan	BRL	0.052	0.0445	85.6						48-107	
Bis(2-chloroethyl) ether	BRL	0.052	0.0366	70.5						43-105	
Bis(2-chloroisopropyl) ether	BRL	0.052	0.0353	68						37-130	
Bis(2-ethylhexyl)phthalate	BRL	0.052	0.0650	125						29-135	
Butyl benzyl phthalate	BRL	0.052	0.0554	106						53-128	
Chrysene	BRL	0.052	0.0449	86.3						59-110	
Dibenzo(a,h)anthracene	BRL	0.052	0.0450	86.6						51-115	
Diethyl phthalate	BRL	0.052	0.0473	91						56-117	
Dimethyl phthalate	BRL	0.052	0.0444	85.4						45-112	
Di-n-butyl phthalate	BRL	0.052	0.0527	101						59-127	
Di-n-octyl Phthalate	BRL	0.052	0.0774	149						30-140	M1
Fluoranthene	BRL	0.052	0.0455	87.4						57-128	
Fluorene	BRL	0.052	0.0421	80.9						59-121	
Hexachlorobenzene	BRL	0.052	0.0414	79.7						53-120	
Hexachlorobutadiene	BRL	0.052	0.0281	54.1						24-105	
Hexachlorocyclopentadiene	BRL	0.052	0.0185	35.6						14-105	
Hexachloroethane	BRL	0.052	0.0284	54.6						40-105	
Indeno(1,2,3-cd)pyrene	BRL	0.052	0.0431	82.9						52-122	
Isophorone	BRL	0.052	0.0349	67.2						42-110	
m- & p-Cresol	BRL	0.103	0.0661	64.2						10-180	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **EPA 625.1** **Reporting Units :** **mg/L**

QC Batch ID : Qb240808137 **Created Date :** 08/08/24 **Created By :** GeMu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

QC Type: MS and MSD
QC Sample ID: 24080698.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Naphthalene	BRL	0.052	0.0316	60.7						40-110	
Nitrobenzene	BRL	0.052	0.0422	81.2						45-105	
Nitroso-N-diethylamine	BRL	0.052	0.0399	76.7						43-121	
N-Nitrosodibutylamine	BRL	0.052	0.0399	76.8						55-105	
N-Nitrosodimethylamine	BRL	0.052	0.0310	59.6						29-100	
N-nitroso-di-n-propylamine	BRL	0.052	0.0427	82						49-115	
N-Nitrosodiphenylamine	BRL	0.052	0.0433	83.3						51-110	
Pentachlorobenzene	BRL	0.052	0.0386	74.2						59-123	
Pentachlorophenol	BRL	0.052	0.0310	59.6						35-128	
Phenanthrene	BRL	0.052	0.0427	82.1						59-110	
Phenol	BRL	0.052	0.0174	33.4						20-100	
Pyrene	BRL	0.052	0.0448	86.2						57-115	
Pyridine	BRL	0.052	0.0254	48.9						20-105	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

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

QC Batch ID : Qb24080844 **Created Date :** 08/07/24 **Created By :** Skannan

Samples in This QC Batch : 24080709.02,04,07,09,12,14

Sample Preparation : PB24080814 **Prep Method :** EPA 300.0 **Prep Date :** 08/07/24 16:00 **Prep By :** Skannan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Fluoride	16984-48-8	BRL	mg/L	1.00	0.1		
Nitrate-N	14797-55-8	BRL	mg/L	1.00	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Fluoride	1	0.939	93.9	1	0.908	90.8	3.4	20	90-110	
Nitrate-N	1	0.904	90.4	1	0.936	93.6	3.5	20	90-110	

QC Type: MS and MSD
QC Sample ID: 24080734.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Fluoride	BRL	5	4.69	93.7						80-120	
Nitrate-N	BRL	5	5.09	102						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Metals by ICP/MS **Method :** EPA 200.8 **Reporting Units :** mg/L

QC Batch ID : Qb24080874 **Created Date :** 08/08/24 **Created By :** YWZhang

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Digestion : PB24080816 **Prep Method :** EPA 200.8 **Prep Date :** 08/08/24 08:10 **Prep By :** JYou

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Aluminum	7429-90-5T	BRL	mg/L	1	0.001		
Antimony	7440-36-0	BRL	mg/L	1	0.0005		
Arsenic	7440-38-2T	BRL	mg/L	1	0.0005		
Barium	7440-39-3T	BRL	mg/L	1	0.0005		
Beryllium	7440-41-7	BRL	mg/L	1	0.0005		
Cadmium	7440-43-9	BRL	mg/L	1	0.0005		
Chromium	7440-47-3T	BRL	mg/L	1	0.0005		
Copper	7440-50-8	BRL	mg/L	1	0.0005		
Lead	7439-92-1T	BRL	mg/L	1	0.0005		
Molybdenum	7439-98-7	BRL	mg/L	1	0.0005		
Nickel	7440-02-0	BRL	mg/L	1	0.0005		
Selenium	7782-49-2	BRL	mg/L	1	0.001		
Silver	7440-22-4	BRL	mg/L	1	0.0005		
Thallium	7440-28-0	BRL	mg/L	1	0.0005		
Zinc	7440-66-6T	BRL	mg/L	1	0.001		

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
Aluminum	0.05	0.0492	98.5	0.05	0.0499	99.8	1.3	20	85-115	
Antimony	0.05	0.0503	101	0.05	0.0509	102	1.2	20	85-115	
Arsenic	0.05	0.0496	99.3	0.05	0.0503	101	1.3	20	85-115	
Barium	0.05	0.0501	100	0.05	0.0511	102	2.1	20	85-115	
Beryllium	0.05	0.0489	97.7	0.05	0.0501	100	2.5	20	85-115	
Cadmium	0.05	0.0508	102	0.05	0.0515	103	1.4	20	85-115	
Chromium	0.05	0.0500	100	0.05	0.0506	101	1.2	20	85-115	
Copper	0.05	0.0504	101	0.05	0.0511	102	1.4	20	85-115	
Lead	0.05	0.0508	102	0.05	0.0509	102	0.1	20	85-115	
Molybdenum	0.05	0.0496	99.2	0.05	0.0502	100	1.2	20	85-115	
Nickel	0.05	0.0499	99.8	0.05	0.0499	99.9	0	20	85-115	
Selenium	0.05	0.0495	99	0.05	0.0506	101	2.2	20	85-115	
Silver	0.05	0.0502	100	0.05	0.0513	103	2.1	20	85-115	
Thallium	0.05	0.0498	99.7	0.05	0.0511	102	2.5	20	85-115	
Zinc	0.05	0.0487	97.3	0.05	0.0501	100	2.9	20	85-115	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Metals by ICP/MS **Method :** EPA 200.8 **Reporting Units :** mg/L

QC Batch ID : Qb24080874 **Created Date :** 08/08/24 **Created By :** YWZhang

Samples in This QC Batch : 24080709.01,03,06,08,11,13

QC Type: MS and MSD
QC Sample ID: 24080624.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Aluminum	0.0753	0.1	0.200	125						70-130	
Antimony	BRL	0.1	0.111	111						70-130	
Arsenic	BRL	0.1	0.115	115						70-130	
Barium	0.173	0.1	0.302	129						70-130	
Beryllium	BRL	0.1	0.109	109						70-130	
Cadmium	BRL	0.1	0.113	113						70-130	
Chromium	0.00025	0.1	0.111	111						70-130	
Copper	0.00256	0.1	0.117	115						70-130	
Lead	0.00005	0.1	0.112	112						70-130	
Molybdenum	BRL	0.1	0.121	121						70-130	
Nickel	BRL	0.1	0.112	112						70-130	
Selenium	BRL	0.1	0.114	114						70-130	
Silver	BRL	0.1	0.109	109						70-130	
Thallium	BRL	0.1	0.101	101						70-130	
Zinc	0.0343	0.1	0.135	101						70-130	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

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

QC Batch ID : Qb24080877 **Created Date :** 08/08/24 **Created By :** BRose

Samples in This QC Batch : 24080709.05,10,15

Sample Preparation : PB24080841 **Prep Method :** SM 2540G **Prep Date :** 08/08/24 14:00 **Prep By :** BRose

QC Type: Method Blank

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

QC Type: Duplicate

QC Sample ID: 24080640.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
% Moisture	39	39.0	%	0	20		

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Total Metals - Mercury **Method :** SW-846 7471B **Reporting Units :** mg/Kg

QC Batch ID : Qb24080887 **Created Date :** 08/08/24 **Created By :** MSenarath

Samples in This QC Batch : 24080709.05,10,15

Digestion : PB24080843 **Prep Method :** SW-846 7471B **Prep Date :** 08/08/24 12:00 **Prep By :** MSenarath

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6T	BRL	mg/Kg	1	0.01		

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	0.1	0.0944	94.4	0.1	0.0992	99.2	5	20	80-120	

QC Type: MS and MSD
QC Sample ID: 24080515.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	0.0115	0.1	0.106	94.2	0.1	0.107	95.1	0.8	20	80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Volatile Organic Compounds **Method :** EPA 624.1 **Reporting Units :** mg/L

QC Batch ID : Qb24080901 **Created Date :** 08/08/24 **Created By :** PNaidu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Sample Preparation : PB24080901 **Prep Method :** EPA 624.1 **Prep Date :** 08/08/24 10:00 **Prep By :** PNaidu

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
1,1,1-Trichloroethane	71-55-6	BRL	mg/L	1.00	0.005		
1,1,2,2-Tetrachloroethane	79-34-5	BRL	mg/L	1.00	0.005		
1,1,2-Trichloroethane	79-00-5	BRL	mg/L	1.00	0.005		
1,1-Dichloroethane	75-34-3	BRL	mg/L	1.00	0.005		
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1.00	0.005		
1,2-Dibromoethane	106-93-4	BRL	mg/L	1.00	0.006		
1,2-Dichloroethane	107-06-2	BRL	mg/L	1.00	0.005		
1,2-Dichloropropane	78-87-5	BRL	mg/L	1.00	0.006		
2-chloroethylvinyl Ether	110-75-8	BRL	mg/L	1.00	0.025		
Acrolein	107-02-8	BRL	mg/L	1.00	0.015		
Acrylonitrile	107-13-1	BRL	mg/L	1.00	0.02		
Benzene	71-43-2	BRL	mg/L	1.00	0.005		
Bromochloromethane	74-97-5	BRL	mg/L	1.00	0.006		
Bromodichloromethane	75-27-4	BRL	mg/L	1.00	0.006		
Bromoform	75-25-2	BRL	mg/L	1.00	0.005		
Bromomethane	74-83-9	BRL	mg/L	1.00	0.005		
Carbon tetrachloride	56-23-5	BRL	mg/L	1.00	0.005		
Chlorobenzene	108-90-7	BRL	mg/L	1.00	0.005		
Chloroethane	75-00-3	BRL	mg/L	1.00	0.006		
Chloroform	67-66-3	BRL	mg/L	1.00	0.005		
Chloromethane	74-87-3	BRL	mg/L	1.00	0.005		
cis-1,2-Dichloroethylene	156-59-2	BRL	mg/L	1.00	0.005		
cis-1,3-Dichloropropene	10061-01-5	BRL	mg/L	1.00	0.006		
Dibromochloromethane	124-48-1	BRL	mg/L	1.00	0.005		
Ethylbenzene	100-41-4	BRL	mg/L	1.00	0.005		
MEK	78-93-3	BRL	mg/L	1.00	0.005		
Methylene chloride	75-09-2	BRL	mg/L	1.00	0.005		
Naphthalene	91-20-3	BRL	mg/L	1.00	0.005		
Tetrachloroethylene	127-18-4	BRL	mg/L	1.00	0.005		
Toluene	108-88-3	BRL	mg/L	1.00	0.005		
trans-1,2-Dichloroethylene	156-60-5	BRL	mg/L	1.00	0.005		
trans-1,3-Dichloropropene	10061-02-6	BRL	mg/L	1.00	0.005		
Trichloroethylene	79-01-6	BRL	mg/L	1.00	0.005		
Vinyl Chloride	75-01-4	BRL	mg/L	1.00	0.005		
Dibromofluoromethane(surr	1868-53-7	96.4	%	1.00	70-130		
1,2-Dichloroethane-d4(surr	17060-07-0	97.2	%	1.00	70-130		
Toluene-d8(surr)	2037-26-5	97.1	%	1.00	70-130		
p-Bromofluorobenzene(surr	460-00-4	98.9	%	1.00	70-130		

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Volatile Organic Compounds **Method :** EPA 624.1 **Reporting Units :** mg/L

QC Batch ID : Qb24080901 **Created Date :** 08/08/24 **Created By :** PNaidu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

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
1,1-Dichloroethylene	0.04	0.0360	90	0.04	0.0374	93.4	3.8	30	82.6-123	
Benzene	0.04	0.0388	97.1	0.04	0.0401	100	3.2	30	89.9-118	
Chlorobenzene	0.04	0.0397	99.2	0.04	0.0400	100	0.8	30	91.5-114	
Toluene	0.04	0.0391	97.7	0.04	0.0395	98.9	1.1	30	89.6-118	
Trichloroethylene	0.04	0.0389	97.3	0.04	0.0406	102	4.2	30	84.2-115	
1,1,1-Trichloroethane	0.04	0.0370	92.6	0.04	0.0395	98.7	6.4	30	83.2-127	
1,1,2,2-Tetrachloroethane	0.04	0.0441	110	0.04	0.0457	114	3.5	30	83.1-121	
1,1,2-Trichloroethane	0.04	0.0434	109	0.04	0.0457	114	5.1	30	82.1-122	
1,1-Dichloroethane	0.04	0.0370	92.5	0.04	0.0397	99.1	7.1	30	84.8-123	
1,2-Dibromoethane	0.04	0.0432	108	0.04	0.0460	115	6.3	30	87.1-119	
1,2-Dichloroethane	0.04	0.0400	99.9	0.04	0.0427	107	6.6	30	82.8-123	
1,2-Dichloropropane	0.04	0.0407	102	0.04	0.0416	104	2.2	30	87.9-122	
MEK	0.04	0.0467	117	0.04	0.0474	119	1.4	30	59.2-133	
Acrolein	0.08	0.0913	114	0.08	0.0918	115	0.6	30	67.4-118	
Acrylonitrile	0.04	0.0438	110	0.04	0.0464	116	5.7	30	69-129	
Bromochloromethane	0.04	0.0395	98.8	0.04	0.0434	109	9.3	30	70.8-133	
Bromodichloromethane	0.04	0.0398	99.5	0.04	0.0421	105	5.6	30	86.3-122	
Bromoform	0.04	0.0389	97.4	0.04	0.0421	105	7.8	30	81.6-120	
Bromomethane	0.04	0.0372	93.1	0.04	0.0368	92.1	1.2	30	58.1-150	
Carbon tetrachloride	0.04	0.0371	92.7	0.04	0.0393	98.3	5.8	30	85.6-130	
Chloroethane	0.04	0.0332	83	0.04	0.0344	86	3.6	30	77.5-130	
Chloroform	0.04	0.0370	92.5	0.04	0.0403	101	8.6	30	85.4-121	
Chloromethane	0.04	0.0322	80.6	0.04	0.0330	82.5	2.3	30	71.4-131	
cis-1,2-Dichloroethylene	0.04	0.0373	93.2	0.04	0.0398	99.5	6.5	30	83.4-123	
cis-1,3-Dichloropropene	0.04	0.0400	100	0.04	0.0409	102	2.2	30	89.6-118	
Dibromochloromethane	0.04	0.0376	94	0.04	0.0397	99.3	5.5	30	83.8-118	
Ethylbenzene	0.04	0.0391	97.7	0.04	0.0397	99.3	1.6	30	91.1-115	
Methylene chloride	0.04	0.0376	94.1	0.04	0.0405	101	7.3	28	60-140	
Naphthalene	0.04	0.0415	104	0.04	0.0426	107	2.6	30	72.4-127	
Tetrachloroethylene	0.04	0.0389	97.3	0.04	0.0398	99.6	2.2	30	70-130	
trans-1,2-Dichloroethylene	0.04	0.0363	90.7	0.04	0.0385	96.3	5.9	30	85.3-123	
trans-1,3-Dichloropropene	0.04	0.0387	96.7	0.04	0.0421	105	8.5	30	84.7-119	
Vinyl Chloride	0.04	0.0337	84.2	0.04	0.0346	86.5	2.7	30	78.5-121	
2-chloroethylvinyl Ether	0.08	0.0887	111	0.08	0.0918	115	3.4	30	32.6-169	

QC Type: MS and MSD
QC Sample ID: 24080709.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.04	0.0388	96.9						74.5-129	
2-chloroethylvinyl Ether	BRL	0.08	0.00137	1.71						10-239	M2

ab-q213-0321

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Volatile Organic Compounds **Method :** EPA 624.1 **Reporting Units :** mg/L

QC Batch ID : Qb24080901 **Created Date :** 08/08/24 **Created By :** PNaidu

Samples in This QC Batch : 24080709.01,03,06,08,11,13

QC Type: MS and MSD
QC Sample ID: 24080709.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.04	0.0405	101						88.4-143	
Chlorobenzene	BRL	0.04	0.0390	97.4						88-112	
Toluene	BRL	0.04	0.0389	97.2						47-150	
Trichloroethylene	BRL	0.04	0.0416	104						78.8-117	
1,1,1-Trichloroethane	BRL	0.04	0.0395	98.8						74.1-132	
1,1,2,2-Tetrachloroethane	BRL	0.04	0.0473	118						92.5-151	
1,1,2-Trichloroethane	BRL	0.04	0.0429	107						83.1-143	
1,1-Dichloroethane	BRL	0.04	0.0406	102						74.6-127	
1,2-Dibromoethane	BRL	0.04	0.0442	111						90-133	
1,2-Dichloroethane	BRL	0.04	0.0431	108						59-155	
1,2-Dichloropropane	BRL	0.04	0.0426	106						84.1-128	
MEK	BRL	0.04	0.0526	131						26.5-198	
Acrolein	BRL	0.08	0.110	137						40-160	
Acrylonitrile	BRL	0.04	0.0468	117						40-160	
Bromochloromethane	BRL	0.04	0.0433	108						60-140	
Bromodichloromethane	BRL	0.04	0.0432	108						79.2-143	
Bromoform	BRL	0.04	0.0409	102						67.2-167	
Bromomethane	BRL	0.04	0.0443	111						10-242	
Carbon tetrachloride	BRL	0.04	0.0406	101						78.7-137	
Chloroethane	BRL	0.04	0.0351	87.6						68.3-134	
Chloroform	BRL	0.04	0.0409	102						69.2-138	
Chloromethane	BRL	0.04	0.0340	85						10-273	
cis-1,2-Dichloroethylene	BRL	0.04	0.0398	99.4						82.3-124	
cis-1,3-Dichloropropene	BRL	0.04	0.0417	104						76.9-129	
Dibromochloromethane	BRL	0.04	0.0393	98.3						65.1-149	
Ethylbenzene	BRL	0.04	0.0386	96.6						64.3-133	
Methylene chloride	BRL	0.04	0.0406	102						25.1-195	
Naphthalene	BRL	0.04	0.0437	109						30.7-205	
Tetrachloroethylene	BRL	0.04	0.0329	82.2						64-138	
trans-1,2-Dichloroethylene	BRL	0.04	0.0384	96						79.6-126	
trans-1,3-Dichloropropene	BRL	0.04	0.0403	101						76.2-134	
Vinyl Chloride	BRL	0.04	0.0356	89						54.7-139	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Phenolics (Total Phenols)** **Method :** **EPA 420.4** **Reporting Units :** **mg/L**

QC Batch ID : Qb240809113 **Created Date :** 08/09/24 **Created By :** Srijan

Samples in This QC Batch : 24080709.02,04,07,12,14

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Phenols	108-95-2	BRL	mg/L	1	0.01		

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
Phenols	0.1	0.0976	97.6	0.1	0.0995	99.5	1.9	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 24080852.02

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phenols	BRL	0.1	0.0994	99.4	0.1	0.1016	102	2.2	10	90-110	

QC Type: MS2 and MSD2
QC Sample ID: 24080696.07

Parameter	Sample Result	MS2 Spk Added	MS2 Result	MS2 % Rec	MSD2 Spk Added	MSD2 Result	MSD2 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phenols	BRL	0.1	0.0990	99	0.1	0.1018	102	2.8	10	90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Polychlorinated Biphenyls **Method :** EPA 608.3 **Reporting Units :** ug/L

QC Batch ID : Qb24080987 **Created Date :** 08/09/24 **Created By :** KMedina

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Extraction : PB24080909 **Prep Method :** EPA 608.3 **Prep Date :** 08/08/24 11:00 **Prep By :** MMuteen

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Aroclor 1016	12674-11-2	BRL	ug/L	1.00	0.05		
Aroclor 1221	11104-28-2	BRL	ug/L	1.00	0.05		
Aroclor 1232	11141-16-5	BRL	ug/L	1.00	0.05		
Aroclor 1242	53469-21-9	BRL	ug/L	1.00	0.05		
Aroclor 1248	12672-29-6	BRL	ug/L	1.00	0.05		
Aroclor 1254	11097-69-1	BRL	ug/L	1.00	0.05		
Aroclor 1260	11096-82-5	BRL	ug/L	1.00	0.05		
Total PCBs		BRL	ug/L	1.00	0.05		
Decachlorobiphenyl(surr)	2051-24-3	101	%	1.00	35-129		
Tetrachloro-m-xylene(surr)	877-09-8	94	%	1.00	27-127		

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
Aroclor 1016	2	1.80	90	2	1.79	89.7	0.6	30	53.7-124	
Aroclor 1260	2	2.08	104	2	2.12	106	1.8	30	51.7-130	
Total PCBs	4	3.88	97.1	4	3.91	97.9	0.7	30	51.7-130	

QC Type: MS and MSD
QC Sample ID: 24080709.13

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Aroclor 1016	BRL	2	1.15	57.4						53.7-124	
Aroclor 1260	BRL	2	1.44	71.9						51.7-130	
Total PCBs	BRL	4	2.59	64.7						51.7-130	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Phenolics (Total Phenols)** **Method :** **EPA 420.4** **Reporting Units :** **mg/L**

QC Batch ID : Qb24081124 **Created Date :** 08/09/24 **Created By :** Srijan

Samples in This QC Batch : 24080709.09

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Phenols	108-95-2	BRL	mg/L	1	0.01		

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
Phenols	0.1	0.0998	99.8	0.1	0.0993	99.3	0.5	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 24080521.03

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phenols	BRL	0.1	0.1011	101	0.1	0.1034	103	2.2	10	90-110	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Chlorinated Herbicides **Method :** EPA 615 **Reporting Units :** ug/L

QC Batch ID : Qb24081286 **Created Date :** 08/09/24 **Created By :** mqiao

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Extraction : PB24080938 **Prep Method :** EPA 615 **Prep Date :** 08/09/24 08:00 **Prep By :** VRodriguez

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
2,4,5-TP	93-72-1	BRL	ug/L	1.00	0.095		
2,4-D	94-75-7	BRL	ug/L	1.00	0.094		
DCPAA(surr)	19719-28-9	89	%	1.00	38-120		

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	2.79	73.2	3.804	2.97	78.1	6.4	32	35-125	
2,4-D	3.76	3.92	104	3.76	3.84	102	2	29	29-124	

QC Type: MS and MSD
QC Sample ID: 24080709.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-TP	BRL	3.804	1.60	42						35-125	
2,4-D	BRL	3.76	1.91	50.9						29-124	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Organochlorine Pesticides **Method :** EPA 608.3 **Reporting Units :** ug/L

QC Batch ID : Qb24081339 **Created Date :** 08/09/24 **Created By :** mqiao

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Extraction : PB24080910 **Prep Method :** EPA 608.3 **Prep Date :** 08/08/24 11:00 **Prep By :** MMuteen

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Alpha-chlordane	5103-71-9	BRL	ug/L	1.00	0.01		
Dicofol	115-32-2	BRL	ug/L	1.00	0.05		
Gamma-chlordane	5103-74-2	BRL	ug/L	1.00	0.01		
4,4-DDD	72-54-8	BRL	ug/L	1.00	0.01		
4,4-DDE	72-55-9	BRL	ug/L	1.00	0.01		
4,4-DDT	50-29-3	BRL	ug/L	1.00	0.01		
a-BHC	319-84-6	BRL	ug/L	1.00	0.01		
Aldrin	309-00-2	BRL	ug/L	1.00	0.01		
b-BHC	319-85-7	BRL	ug/L	1.00	0.01		
Chlordane	57-74-9	BRL	ug/L	1.00	0.1		
d-BHC	319-86-8	BRL	ug/L	1.00	0.01		
Dieldrin	60-57-1	BRL	ug/L	1.00	0.01		
Endosulfan I	959-98-8	BRL	ug/L	1.00	0.01		
Endosulfan II	33213-65-9	BRL	ug/L	1.00	0.01		
Endosulfan sulfate	1031-07-8	BRL	ug/L	1.00	0.01		
Endrin	72-20-8	BRL	ug/L	1.00	0.01		
Endrin aldehyde	7421-93-4	BRL	ug/L	1.00	0.01		
Endrin ketone	53494-70-5	BRL	ug/L	1.00	0.01		
g-BHC	58-89-9	BRL	ug/L	1.00	0.01		
Heptachlor	76-44-8	BRL	ug/L	1.00	0.01		
Heptachlor epoxide	1024-57-3	BRL	ug/L	1.00	0.01		
Methoxychlor	72-43-5	BRL	ug/L	1.00	0.01		
Mirex	2385-85-5	BRL	ug/L	1.00	0.01		
Toxaphene	8001-35-2	BRL	ug/L	1.00	0.1		
Tetrachloro-m-xylene(surr)	877-09-8	104	%	1.00	24-127		
Decachlorobiphenyl(surr)	2051-24-3	112	%	1.00	34-120		

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
Alpha-chlordane	0.2	0.231	116	0.2	0.236	118	2.1	23	42-132	
Gamma-chlordane	0.2	0.220	110	0.2	0.226	113	2.5	21	45-133	
4,4-DDD	0.2	0.204	102	0.2	0.210	105	2.6	24	40.8-141	
4,4-DDE	0.2	0.228	114	0.2	0.231	116	1.3	21	30-136	
4,4-DDT	0.2	0.258	129	0.2	0.263	132	2.1	30	34.3-134	
a-BHC	0.2	0.215	108	0.2	0.218	109	1.4	25	37-125	
Aldrin	0.2	0.224	112	0.2	0.228	114	1.6	23	42-127	
b-BHC	0.2	0.226	113	0.2	0.228	114	1.1	24	38.5-132	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Organochlorine Pesticides **Method :** EPA 608.3 **Reporting Units :** ug/L

QC Batch ID : Qb24081339 **Created Date :** 08/09/24 **Created By :** mqiao

Samples in This QC Batch : 24080709.01,03,06,08,11,13

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
d-BHC	0.2	0.246	123	0.2	0.240	120	2.5	20	30-139	
Dieldrin	0.2	0.213	107	0.2	0.222	111	4.1	21	40.7-133	
Endosulfan I	0.2	0.157	78.5	0.2	0.158	79	0.6	24	45-124	
Endosulfan II	0.2	0.171	85.5	0.2	0.172	86.3	0.6	21	20-114	
Endosulfan sulfate	0.2	0.236	118	0.2	0.244	122	3.6	20	45-131	
Endrin	0.2	0.228	114	0.2	0.233	117	2	24	35.1-136	
Endrin aldehyde	0.2	0.224	112	0.2	0.234	117	4.1	33	33.9-130	
Endrin ketone	0.2	0.238	119	0.2	0.248	124	3.9	20	32.3-136	
g-BHC	0.2	0.222	111	0.2	0.225	113	1.1	25	39-132	
Heptachlor	0.2	0.212	106	0.2	0.218	109	3	20	34.6-134	
Heptachlor epoxide	0.2	0.226	113	0.2	0.228	114	1.1	24	39.2-132	
Methoxychlor	0.2	0.263	132	0.2	0.274	137	4.1	24	37.7-143	

QC Type: MS and MSD
QC Sample ID: 24080709.08

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Alpha-chlordane	BRL	0.2	0.104	52.3						45-140	
Gamma-chlordane	BRL	0.2	0.117	58.5						45-150	
4,4-DDD	BRL	0.2	0.139	69.5						31-141	
4,4-DDE	BRL	0.2	0.0910	45.5						30-145	
4,4-DDT	BRL	0.2	0.158	79						25-160	
a-BHC	BRL	0.2	0.127	63.5						37-140	
Aldrin	BRL	0.2	0.108	53.8						42-140	
b-BHC	BRL	0.2	0.142	70.8						17-147	
d-BHC	BRL	0.2	0.156	78						19-140	
Dieldrin	BRL	0.2	0.124	61.8						36-146	
Endosulfan I	BRL	0.2	0.0915	45.8						45-153	
Endosulfan II	BRL	0.2	0.0990	49.5						10-190	
Endosulfan sulfate	BRL	0.2	0.158	78.8						26-144	
Endrin	BRL	0.2	0.122	60.8						30-147	
Endrin aldehyde	BRL	0.2	0.172	86.3						60-140	
Endrin ketone	BRL	0.2	0.132	66						60-140	
g-BHC	BRL	0.2	0.132	65.8						32-140	
Heptachlor	BRL	0.2	0.0980	49						34-140	
Heptachlor epoxide	BRL	0.2	0.165	82.5						37-142	
Methoxychlor	BRL	0.2	0.200	99.8						60-140	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Hexavalent Chromium **Method :** SM 3500Cr B **Reporting Units :** mg/L

QC Batch ID : Qb24081367 **Created Date :** 08/07/24 **Created By :** JCasas

Samples in This QC Batch : 24080709.02,04,07,09,12,14

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chromium, Hexavalent	18540-29-9	BRL	mg/L	1	0.01		

QC Type: Duplicate

QC Sample ID: 24080709.14

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Chromium, Hexavalent	BRL	BRL	mg/L	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chromium, Hexavalent	0.1	0.0992	99.2	0.1	0.0992	99.2	0	20	90-111	

QC Type: MS and MSD

QC Sample ID: 24080709.14

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chromium, Hexavalent	BRL	0.1	0.0924	92.4	0.1	0.0930	93	0.6	20	90-111	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Organophosphorus Pesticides **Method :** EPA 614 **Reporting Units :** ug/L

QC Batch ID : Qb24081383 **Created Date :** 08/12/24 **Created By :** KMedina

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Extraction : PB24080940 **Prep Method :** SW-846 3510C **Prep Date :** 08/09/24 09:00 **Prep By :** VRodriguez

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chlorpyrifos	2921-88-2	BRL	ug/L	1.00	0.2		
Demeton	8065-48-3	BRL	ug/L	1.00	0.2		
Demeton-O	298-03-3	BRL	ug/L	1.00	0.2		
Diazinon	333-41-5	BRL	ug/L	1.00	0.2		
Dimethoate	60-51-5	BRL	ug/L	1.00	0.2		
EPN	2104-64-5	BRL	ug/L	1.00	0.2		
Ethion	563-12-2	BRL	ug/L	1.00	0.2		
Guthion	86-50-0	BRL	ug/L	1.00	0.2		
Malathion	121-75-5	BRL	ug/L	1.00	0.2		
Methyl Parathion		BRL	ug/L	1.00	0.2		
Parathion	56-38-2	BRL	ug/L	1.00	0.2		
4-Chloro-3-Nitro-Benzene(s		92.4	%	1.00	15-109		

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
Chlorpyrifos	0.6	0.7235	121	0.6	0.7925	132	9.1	26	40-152	
Demeton	0.6	0.68	113	0.6	0.754	126	10.3	25	D-100	
Demeton-O	0.6	0.656	109	0.6	0.724	121	9.9	22	D-221	
Diazinon	0.6	0.644	107	0.6	0.668	111	3.7	28	64-123	
Dimethoate	0.6	0.6265	104	0.6	0.686	114	9.1	29	16-143	
EPN	0.6	0.5575	92.9	0.6	0.5375	89.6	3.7	33	17-155	
Ethion	0.6	0.749	125	0.6	0.854	142	13.1	24	48-146	
Guthion	0.6	0.661	110	0.6	0.6645	111	0.5	31	31-143	
Malathion	0.6	0.724	121	0.6	0.7785	130	7.2	26	34-176	
Methyl Parathion	0.6	0.6875	115	0.6	0.7105	118	3.3	33	35-152	
Parathion	0.6	0.669	112	0.6	0.774	129	14.6	38	50-133	

QC Type: MS and MSD
QC Sample ID: 24080709.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chlorpyrifos	BRL	0.6	0.599	99.8						40-152	
Demeton	BRL	0.6	0.687	115						D-100	
Demeton-O	BRL	0.6	0.641	107						D-221	
Diazinon	BRL	0.6	0.7915	132						64-123	M1
Dimethoate	BRL	0.6	0.6335	106						16-143	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Organophosphorus Pesticides **Method :** EPA 614 **Reporting Units :** ug/L

QC Batch ID : Qb24081383 **Created Date :** 08/12/24 **Created By :** KMedina

Samples in This QC Batch : 24080709.01,03,06,08,11,13

QC Type: MS and MSD
QC Sample ID: 24080709.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
EPN	BRL	0.6	0.831	139						17-155	
Ethion	BRL	0.6	0.6185	103						48-146	
Guthion	BRL	0.6	0.708	118						31-143	
Malathion	BRL	0.6	0.6265	104						34-176	
Methyl Parathion	BRL	0.6	0.5995	99.9						35-154	
Parathion	BRL	0.6	0.6565	109						50-133	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Cyanide, Total **Method :** SM 4500CNC/E **Reporting Units :** mg/L

QC Batch ID : Qb240814119 **Created Date :** 08/14/24 **Created By :** Srijan

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Sample Preparation : PB24081430 **Prep Method :** SM 4500CNC/E **Prep Date :** 08/14/24 10:00 **Prep By :** Srijan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Cyanide	57-12-5	BRL	mg/L	1	0.01		

QC Type: Duplicate

QC Sample ID: 24081314.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Cyanide	BRL	0.0069	mg/L	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Cyanide	0.04	0.036	90	0.04	0.038	95	5.4	20	85-115	

QC Type: MS and MSD

QC Sample ID: 24081314.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Cyanide	0.0069	0.04	0.041	85.3						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : Cyanide, Amenable **Method :** SM 4500CN-CG **Reporting Units :** mg/L

QC Batch ID : Qb240814121 **Created Date :** 08/14/24 **Created By :** Srijan

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Sample Preparation : PB24081431 **Prep Method :** SM 4500CN-CG **Prep Date :** 08/14/24 10:00 **Prep By :** Srijan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Cyanide, Amenable	57-12-5	BRL	mg/L	1	0.01		

QC Type: Duplicate

QC Sample ID: 24081314.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Cyanide, Amenable	BRL	0.0033	mg/L	0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Cyanide, Amenable	0.04	0.040	100	0.04	0.039	97.5	2.5	20	83-116	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : **Method :** **SM 4500CN-I** **Reporting Units :** **mg/L**

QC Batch ID : Qb240814125 **Created Date :** 08/14/24 **Created By :** Srijan

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Sample Preparation : PB24081434 **Prep Method :** SM 4500CN-I **Prep Date :** 08/14/24 12:00 **Prep By :** Srijan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Cyanide, Free	57-12-5	BRL	mg/L	1	0.01		

QC Type: Duplicate

QC Sample ID: 24080709.01

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

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Cyanide, Free	0.04	0.037	92.5	0.04	0.040	100	7.8	20	80-120	

QC Type: MS and MSD

QC Sample ID: 24080709.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Cyanide, Free	BRL	0.04	0.038	95						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24080709 **Date :** 8/21/2024

Analysis : CVAFS **Method :** EPA 1631E **Reporting Units :** ng/L

QC Batch ID : Qb24081608 **Created Date :** 08/15/24 **Created By :** BChristofer

Samples in This QC Batch : 24080709.01,03,06,08,11,13

Digestion : PB24081556 **Prep Method :** EPA 1631E **Prep Date :** 08/14/24 17:00 **Prep By :** BChristofer

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6T	BRL	ng/L	1	0.5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	5	4.87	97.4	5	5.31	106	8.6	24	77-123	

QC Type: MS and MSD
QC Sample ID: 24080709.13

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	2.48	5	7.00	90.4	5	7.88	108	11.8	24	71-125	

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10100 East Freeway (I-10)

Job ID:24080709

08/07/2024 City of Huntsville ACH

www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 2024-052
Company:AJ Brown WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☑ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	Dioxins & Furans sub	SVOC sub	PCBs & Pesticides_CL	Herbicides	SVOC	Cyanide(Total/Amendable, WAD)	18. Comments
												A/G C	A/G C	A/G C	A/G C	A/G C	P/O OH+Thio		14. Containers* / 15. Preservatives** / 16. pH-Lab Only
AJ Brown Influent	01AB	8/6/2024	0720	X		X						2	X						24PT
AJ Brown Inluent	01CDEF	8/6/2024	0720	X		X						4		X					24PT
AJ Brown Influent	01GH	8/6/2024	0720	X		X						2			X				24PT
AJ Brown Influent	01IJ	8/6/2024	0720	X		X						2				X			24PT
AJ Brown Influent	01KL	8/6/2024	0720	X		X						2					X		24PT
AJ Brown Influent	01M	8/6/2024	0720	X		X						1						X	24PT

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3°C **Intact?** ☑ Y ☐ N Initials AXS IR7

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

The Chain of Custody is a Legal Document

10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:AJ Brown WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact: Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	VOC	Metals*	Hg_LL_Sub	Phenols, Total	Anions_IC & Chromium Hex	Organophosphorus Pesticides	18. Comments
												VOA H+C		P/O N	VOA H+C	A/G S	P/O C	A/G C	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
AJ Brown Influent	01NOP	8/6/2024	0720	X		X						3	X						24PT
AJ Brown Influent	01Q	8/6/2024	0720	X		X						1		X					24PT
AJ Brown Influent	01RST	8/6/2024	0720	X		X						3			X				24PT
AJ Brown Influent	02A	8/7/2024	0836		X	X						1				X			
AJ Brown Influent	02B	8/7/2024	0836		X	X						1					X		
AJ Brown Influent	01UV	8/6/2024	0720	X		X						2						X	24PT
																			*Al,Sb,Ar,Ba,Be,Cd,Cr
																			Cu,Pb,Mo,Ni,Se,Ag,Tl
																			Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ABMHH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H-** HCl **N-** HNO3 **S-**H2SO4 **OH-** NaOH **T-**Na2S2O3 **X-** Other

Temperature: 1.3°C
Intact? ☑ Y ☐ N IR
Initials AM

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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713-453-6091 Fax
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www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:AJ Brown WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G	S					14. Containers*	15. Preservatives**	16. pH-Lab Only	18. Comments
													SVOC									
AJ Brown Influent	01W	8/6/2024	0710	X		X						1	X									24pt

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3°C **Intact?** ☑ Y ☐ N Initials ANS 1107

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:
Company:AJ Brown WWTP	Company:City of Huntsville
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd
Huntsville, Texas 77320	Huntsville, Texas 77320
Contact:Daniel Martin	Contact: Daniel Martin
Phone:936-294-5726	Phone:936-294-5726
Fax:936-295-9333	Fax:936-295-9333
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov
Email CC:	Email CC:

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Priority Pollutants

3. PO # 2024-052

4. Turnaround Time (Business Days)
☐ 1 Day * ☐ Other
☐ 2 Days *
☐ 3 Days *
☐ 5 Days * * Surcharge
☑ 7 Days-Standard

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☑ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 — 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	Dioxins & Furans sub	SVOC sub	PCBs & Pesticides_CL	Herbicides	SVOC	Cyanide(Total/Amendable, WAD)	18. Comments
												A/G C	A/G C	A/G C	A/G C	A/G C	A/G C	P/O OH+Thio	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
AJ Brown Effluent	03AB	8/7/2024	8:00	X		X						2	X						
AJ Brown Effluent	03CF	8/7/2024	8:00	X		X						4		X					
AJ Brown Effluent	03GH	8/7/2024	8:00	X		X						2			X				
AJ Brown Effluent	03IJ	8/7/2024	8:00	X		X						2				X			
AJ Brown Effluent	03KL	8/7/2024	8:00	X		X						2					X		
AJ Brown Effluent	03M	8/7/2024	8:00	X		X						1						X	

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1)	8-7-24	1205		8/7/24	1205
2)	8/7/24	13:45	ASMITH	8/7/24	13:45
3)			21.RECEIVED BY LABORATORY		

KNOWN HAZARDS / COMMENTS:

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3°C
Intact? ☑ Y ☐ N
Initials ANS 1R7

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:AJ Brown WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact: Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	VOA VOC H+C	P/O Metals* N	VOA Hg_LL_Sub H+C	A/G Phenols, Total S	P/O Anions_IC & Chromium Hex C	A/G Organophosphorus Pesticides C	18. Comments
AJ Brown Effluent	03NP	8/7/2024	8:00	X		X						3	X						
AJ Brown Effluent	03Q	8/7/2024	8:00	X		X						1		X					
AJ Brown Effluent	03RT	8/7/2024	8:00	X		X						3			X				
AJ Brown Effluent	04A	8/7/2024	0847		X	X						1				X			
AJ Brown Effluent	04B	8/7/2024	0847		X	X						1					X		
AJ Brown Effluent	03UV	8/7/2024	8:00	X		X						2						X	
																			*Al,Sb,Ar,Ba,Be,Cd,Cr
																			Cu,Pb,Mo,Ni,Se,Ag,Tl
																			Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1705		8/8/24	1105	
2)	8/7/24	13:45	A Smith	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H-** HCl **N-** HNO3 **S-**H2SO4 **OH-** NaOH **T-**Na2S2O3 **X-** Other

Temperature: 1.3 °C
Intact? ☑ Y ☐ N IR
Initials AMS

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:AJ Brown WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G	S	SVOC					14. Containers* / 15. Preservatives** / 16. pH-Lab Only	18. Comments
AJ Brown Effluent	03W	8/7/2024	8:00	X		X						1			X						

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45		8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3 °C
Intact? ☑ Y ☐ N IR3
Initials AMS

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:AJ Brown WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
AJ Brown WWTP Sludge

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	4oz/8oz	C	Metals*	14. Containers*	15. Preservatives**	16. pH-Lab Only	18. Comments
AJ Brown WWTP	05A	8-6-24	0830		x			x				1			X				*Ar,Cd,Cr,Cu,Pb,Hg,Mo,N
																			Ni,P,K,Se,Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	???		8/7/24	1205	
2)	8/7/24	13:45	ASMHZ	8/7/24	1345	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH T-Na2S2O3 **X**- Other

Temperature: 1-3°C
Intact? ☑ Y ☐ N IR7
Initials AVS

BILL OF LADING/TRACKING #

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info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☑ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	Dioxins & Furans sub	SVOC sub	PCBs & Pesticides_CL	Herbicides	SVOC	Cyanide(Total/Amendable, WAD)	18. Comments
												A/G C	A/G C	A/G C	A/G C	A/G C	A/G C	P/O OH+Thio	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
NB Davidson Influent	06AB	8/6/2024	0800	X		X						2	X						24PT
NB Davidson Influent	06CF	8/6/2024	0800	X		X						4		X					24PT
NB Davidson Influent	06GH	8/6/2024	0800	X		X						2			X				24PT
NB Davidson Influent	06IJ	8/6/2024	0800	X		X						2				X			24PT
NB Davidson Influent	06KL	8/6/2024	0800	X		X						2					X		24PT
NB Davidson Influent	06M	8/6/2024	0800	X		X						1						X	24PT

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ABSMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other____

Temperature: 1.3°C
Intact? ☑ Y ☐ N
Initials AMS 1127

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

The Chain of Custody is a Legal Document

10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	VOA H+C VOC	P/O N Metals*	VOA H+C Hg_LL_Sub	A/G S Phenols, Total	P/O C Anions_IC & Chromium Hex	A/G C Organophosporus Pesticides	18. Comments
NB Davidson Influent	06NP	8/6/2024	0800	X		X						3	X						24PT
NB Davidson Influent	06Q	8/6/2024	0800	X		X						1		X					24PT
NB Davidson Influent	06RT	8/6/2024	0800	X		X						3			X				24PT
NB Davidson Inluent	07A	8/7/2024	0920		X	X						1				X			
NB Davidson Influent	07B	8/7/2024	0920		X	X						1					X		
NB Davidson Influent	06WV	8/6/2024	0800	X		X						2						X	24PT
																			*Al,Sb,Ar,Ba,Be,Cd,Cr
																			Cu,Pb,Mo,Ni,Se,Ag,Tl
																			Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3 °C **Intact?** ☑ Y ☐ N Initials ANS IR2

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

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1-877-478-6060 Toll Free
713-453-6091 Fax
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www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G	S					14. Containers* / 15. Preservatives** / 16. pH-Lab Only	18. Comments
													SVOC							
NB Davidson Influent	06W	8/6/2024	0800	X		X						1	X							24pt

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1200		8/7/24	1205	
2)	8/7/24	13:45	T SMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH T-Na2S2O3 **X**- Other

Temperature: 6.3 °C **Intact?** ☑ Y ☐ N IR Initials AMS

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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1. REPORT TO:	2. INVOICE TO:	3. PO # 2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☑ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	Dioxins & Furans sub	SVOC sub	PCBs & Pesticides_CL	Herbicides	SVOC	Cyanide(Total/Amendable, WAD)	18. Comments
												A/G C	A/G C	A/G C	A/G C	A/G C	A/G C	P/O OH+Thio	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
NB Davidson Effluent	08AB	8/7/2024	8:00	X		X						2	X						24PT
NB Davidson Effluent	08CF	8/7/2024	8:00	X		X						4		X					24PT
NB Davidson Effluent	08GH	8/7/2024	8:00	X		X						2			X				24PT
NB Davidson Effluent	08IJ	8/7/2024	8:00	X		X						2				X			24PT
NB Davidson Effluent	08KL	8/7/2024	8:00	X		X						2					X		24PT
NB Davidson Effluent	08M	8/7/2024	8:00	X		X						1						X	24PT

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH 8/7/24		13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H-** HCl **N-** HNO3 **S-**H2SO4 **OH-** NaOH **T-**Na2S2O3 **X-** Other

Temperature: 1-3 °C **Intact?** ☑ Y ☐ N IR-7 Initials AAS

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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713-453-6091 Fax
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www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	VOA H+C VOC	P/O N Metals*	VOA H+C Hg_LL_Sub	A/G S Phenols, Total	P/O C Anions_ IC & Chromium Hex	A/G C Organophosporus Pesticides	18. Comments
NB Davidson Effluent	08NP	8/7/2024	8:00	X		X						3	X						24PT
NB Davidson Effluent	08Q	8/7/2024	8:00	X		X						1		X					24PT
NB Davidson Effluent	08RT	8/7/2024	8:00	X		X						3			X				24PT
NB Davidson Effluent	09A	8/7/2024	0935		X	X						1				X			
NB Davidson Effluent	09B	8/7/2024	0935		X	X						1					X		
NB Davidson Effluent	08UV	8/7/2024	8:00	X		X						2						X	24pt
																			*Al,Sb,Ar,Ba,Be,Cd,Cr
																			Cu,Pb,Mo,Ni,Se,Ag,Tl
																			Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMHH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH T-Na2S2O3 **X**- Other____

Temperature: 1.5 °C
Intact? ☑ Y ☐ N
Initials AMS IR7

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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1-877-478-6060 Toll Free
713-453-6091 Fax
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www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	12. Matrix Soil	12. Matrix Sludge	12. Matrix Oil	12. Matrix Air	12. Matrix other	13. No. of Containers	A/G						14. Containers*
													S						15. Preservatives**
													SVOC						16. pH-Lab Only
																			18. Comments
NB Davidson Effluent	OBW	8/7/2024	8:00	X		X						1	X						24pt

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3 **Intact?** ☑ Y ☐ N IR-7
Initials AMS

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:NB Davidson WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:1.4mi SW of Elkins Dam	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
NB Davidson WWTP Sludge

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	4oz/8oz						14. Containers*
	10A 09A												C						15. Preservatives**
																			16. pH-Lab Only
													Metals*						18. Comments
NB Davidson WWTP	09A	8-6-24	0940		x			x					X						*Ar,Cd,Cr,Cu,Pb,Hg,Mo,N
																			Ni,P,K,Se,Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	1345	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3 °C
Intact? ☑ Y ☐ N IR7
Initials AMS

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 2024-052
Company:Robinson Creek WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:4420 Fm 1374	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☑ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G C Dioxins & Furans sub	A/G C SVOC sub	A/G C PCBs & Pesicidest_CL	A/G C Herbicides	A/G C SVOC	P/O OH+Thio Cyanide(Total/Amendable, WAD)	14. Containers* 15. Preservatives** 16. pH-Lab Only	18. Comments
Robinson Creek Influent	10AB	8/6/2024	0830	X		X						2	X							24PT
Robinson Creek Influent	10CF	8/6/2024	0830	X		X						4		X						24PT
Robinson Creek Influent	10GH	8/6/2024	0830	X		X						2			X					24PT
Robinson Creek Influent	10IJ	8/6/2024	0830	X		X						2				X				24PT
Robinson Creek Influent	10KL	8/6/2024	0830	X		X						2					X			24PT
Robinson Creek Influent	10M	8/6/2024	0830	X		X						1						X		24PT

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H-** HCl **N-** HNO3 **S-**H2SO4 **OH-** NaOH T-Na2S2O3 **X-** Other

Temperature: 1.3
Intact? ☑ Y ☐ N
Initials AKS IR7

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	VOC	Metals*	Hg_LL_Sub	Phenols, Total	Anions_IC & Chromium Hex	Organophosphorus Pesticides	18. Comments
												VOA H+C		P/O N	VOA H+C	A/G S	P/O C	A/G C	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
Robinson Creek Influent	1 NP	8/6/2024	0830	X		X						3	X						24PT
Robinson Creek Influent	1 Q	8/6/2024	0830	X		X						1		X					24PT
Robinson Creek Influent	1 RT	8/6/2024	0830	X		X						3			X				24PT
Robinson Creek Influent	12A	8/7/2024	0958		X	X						1				X			
Robinson Creek Influent	12B	8/7/2024	0958		X	X						1					X		
Robinson Creek Influent	1 WV	8/6/2024	0830	X		X						2						X	24PT
																			*Al,Sb,Ar,Ba,Be,Cd,Cr
																			Cu,Pb,Mo,Ni,Se,Ag,Tl
																			Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3
Intact? ☑ Y ☐ N
Initials AMS IR7

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

The Chain of Custody is a Legal Document

10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:Robinson Creek WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:4420 Fm 1374	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G	S	14. Containers*	15. Preservatives**	16. pH-Lab Only	18. Comments
													SVOC					
Robinson Creek Influent	HW	8/6/2024	0830	X		X						1	X					24PT

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	HBSMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H-** HCl **N-** HNO3 **S-**H2SO4 **OH-** NaOH **T-**Na2S2O3 **X-** Other____

Temperature: 1.3 C
Intact? ☑ Y ☐ N
Initials AMS IR

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

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10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 2024-052
Company:Robinson Creek WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:4420 Fm 1374	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G C Dioxins & Furans sub	A/G C SVOC sub	A/G C PCBs & Pesticides_Cl,	A/G C Herbicides	A/G C SVOC	P/O OH+Thio Cyanide(Total/Amendable, WAD)	14. Containers* / 15. Preservatives** / 16. pH-Lab Only	18. Comments
Robinson Creek Effluent	13AB	8/7/2024	8:00	X		X						2	X							24PT
Robinson Creek Effluent	13DF	8/7/2024	8:00	X		X						4		X						24PT
Robinson Creek Effluent	13GH	8/7/2024	8:00	X		X						2			X					24PT
Robinson Creek Effluent	13IJ	8/7/2024	8:00	X		X						2				X				24PT
Robinson Creek Effluent	13KL	8/7/2024	8:00	X		X						2					X			24PT
Robinson Creek Effluent	13M	8/7/2024	8:00	X		X						1						X		24PT

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASmith	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH T-Na2S2O3 **X**- Other

Temperature: 1.3 °C **Intact?** ☑ Y ☐ N Initials TLS 1C7

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

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10100 East Freeway (I-10)
Houston, TX 77029
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1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:Robinson Creek WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:4420 Fm 1374	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	VOA H+C VOC	P/O N Metals*	VOA H+C Hg_LL_Sub	A/G S Phenols, Total	P/O C Anions_IC & Chromium Hex	A/G C Organophosphorus Pesticides	14. Containers* / 15. Preservatives** / 16. pH-Lab Only	18. Comments
Robinson Creek Effluent	13NP	8/7/2024	8:00	X		X						3	X							24PT
Robinson Creek Effluent	13Q	8/7/2024	8:00	X		X						1		X						24PT
Robinson Creek Effluent	13RT	8/7/2024	8:00	X		X						3			X					24PT
Robinson Creek Effluent	14A	8/7/2024	10:05		X	X						1				X				
Robinson Creek Effluent	14B	8/7/2024	10:05		X	X						1					X			
Robinson Creek Effluent	13WV	8/7/2024	8:00	X		X						2						X		24PT
																				*Al,Sb,Ar,Ba,Be,Cd,Cr
																				Cu,Pb,Mo,Ni,Se,Ag,Tl
																				Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASMITH	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.3 C
Intact? ☑ Y ☐ N
Initials AMS 1127

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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10100 East Freeway (I-10)
Houston, TX 77029
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1-877-478-6060 Toll Free
713-453-6091 Fax
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www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:Robinson Creek WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:4420 Fm 1374	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact:Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Priority Pollutants

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	A/G	S	--	14. Containers*	15. Preservatives**	16. pH-Lab Only	18. Comments
Robinson Creek Effluent	13W	8/7/2024	8:00	X		X						1	X						24PT

svoc

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASmith	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1-3 °C
Intact? ☑ Y ☐ N
Initials TMS IR

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company:Robinson Creek WWTP	Company:City of Huntsville	4. Turnaround Time (Business Days)
Address:4420 Fm 1374	Address:94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77340	Huntsville, Texas 77320	☐ 2 Days *
Contact:Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone:936-294-5726	Phone:936-294-5726	☐ 5 Days * * Surcharge
Fax:936-295-9333	Fax:936-295-9333	☑ 7 Days-Standard
Email:dmartin@huntsvilletx.gov	Email:dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location
Robinson Creek WWTP Sludge

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**
Daniel Martin/ COH Staff 94 Parker Creek Rd Huntsville Tx 77320 8-7-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	12. Matrix Soil	12. Matrix Sludge	12. Matrix Oil	12. Matrix Air	12. Matrix other	13. No. of Containers	4oz/8oz Metals*	14. Containers*	15. Preservatives**	16. pH-Lab Only	18. Comments
													C				
Robinson Creek WWTP	15A	8-6-24	10:40		x			x					X				*Ar,Cd,Cr,Cu,Pb,Hg,Mo,N
																	Ni,P,K,Se,Zn

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	8-7-24	1205		8/7/24	1205	
2)	8/7/24	13:45	ASM 1127	8/7/24	13:45	
3)			21.RECEIVED BY LABORATORY			

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

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other____

Temperature: 1.3 °C
Intact? ☑ Y ☐ N
Initials AMS 1127

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

Sample Condition Checklist

A&B JobID : **24080709**	Date Received : **08/07/2024**	Time Received : **1:45PM**
Client Name : **City of Huntsville**		
Temperature : **1.3°C**	Sample pH : **<2 Metals, Phenol >12 CN**	
Thermometer ID : **IR7**	pH Paper ID : **234223**	
Perservative :	Lot# :	

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

Comments : Include actions taken to resolve discrepancies/problem:

CN: NaOH+NaAsO2. ~ANS 08/07/24. Sx01-04,06-09,11-14= Water, Sx05,10,15= Sludge. ~ANS 08/07/24

Brought by : Client

Received by : ASmith

Check in by/date : ASmith / 08/07/2024

ab-s005-1123

Laboratory Analysis Report

Total Number of Pages: 16

Job ID : 24080709

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

Client Project Name :

AJ Brown WWTP Priority Pollutants / NB Davidson WWTP Priority Pollutants / Robinson Creek WWTP Priority Pollutants

Report To :	Client Name:	City of Huntsville	P.O.#.:	2024-052
	Attn:	Daniel Martin	Sample Collected By:	Daniel Martin
	Client Address:	445 TX-75	Date Collected:	08/06/24 - 08/07/24
	City, State, Zip:	Huntsville, Texas, 77320		

Client Sample ID	Matrix	A&B Sample ID
AJ Brown Influent	Water	24080709.01
AJ Brown Effluent	Water	24080709.03
NB Davidson Influent	Water	24080709.06
NB Davidson Effluent	Water	24080709.08
Robinson Creek Influent	Water	24080709.11
Robinson Creek Effluent	Water	24080709.13

This analysis was subcontracted to :
SPL Kilgore Corporation, 2600 Dudley Rd.
Kilgore, Texas, 75662

Released By: Alisha Hughes
Title: Senior Project Manager

Date: 09/24/2024

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.

ab-q210-0321

Date Received : 08/07/2024 13:45

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

Project
1113941

ABL2-G

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Printed 08/19/2024
7:45

TABLE OF CONTENTS

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

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

1

SAMPLE CROSS REFERENCE

Project
1113941

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Sample	Sample ID	Taken	Time	Received
2324328	*AJ BROWN INFLUENT*	08/06/2024	07:20:00	08/09/2024

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 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1132820) Volume: 1.00000 mL <== Derived from 02 (981 ml)
Bottle 06 Prepared Bottle: 2 mL Autosampler Vial (Batch 1132983) Volume: 5.00000 mL <== Derived from 01 (973 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	05	1132820	08/12/2024	1133885	08/13/2024
EPA 604.1	06	1132983	08/12/2024	1133537	08/14/2024

Sample	Sample ID	Taken	Time	Received
2324329	*AJ BROWN EFFLUENT*	08/07/2024	08:00:00	08/09/2024

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 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1132820) Volume: 1.00000 mL <== Derived from 02 (979 ml)
Bottle 06 Prepared Bottle: 2 mL Autosampler Vial (Batch 1132983) Volume: 5.00000 mL <== Derived from 01 (986 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	05	1132820	08/12/2024	1133885	08/14/2024
EPA 604.1	06	1132983	08/12/2024	1133537	08/14/2024

Sample	Sample ID	Taken	Time	Received
2324330	*NB DAVIDSON INFLUENT*	08/06/2024	08:00:00	08/09/2024

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 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1132820) Volume: 1.00000 mL <== Derived from 02 (976 ml)
Bottle 06 Prepared Bottle: 2 mL Autosampler Vial (Batch 1132983) Volume: 5.00000 mL <== Derived from 01 (962 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	05	1132820	08/12/2024	1133885	08/14/2024
EPA 604.1	06	1132983	08/12/2024	1133537	08/14/2024

Email: Kilgore.ProjectManagement@spllabs.com

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

1

SAMPLE CROSS REFERENCE

Project
1113941

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Sample	Sample ID	Taken	Time	Received
2324331	*NB DAVIDSON EFFLUENT*	08/07/2024	08:00:00	08/09/2024

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 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1132820) Volume: 1.00000 mL <== Derived from 02 (963 ml)
Bottle 06 Prepared Bottle: 2 mL Autosampler Vial (Batch 1132983) Volume: 5.00000 mL <== Derived from 01 (958 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	05	1132820	08/12/2024	1133885	08/14/2024
EPA 604.1	06	1132983	08/12/2024	1133537	08/14/2024

Sample	Sample ID	Taken	Time	Received
2324332	*ROBINSON CREEK INFLUENT*	08/06/2024	08:30:00	08/09/2024

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 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1132820) Volume: 1.00000 mL <== Derived from 02 (973 ml)
Bottle 06 Prepared Bottle: 2 mL Autosampler Vial (Batch 1132983) Volume: 5.00000 mL <== Derived from 01 (969 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	05	1132820	08/12/2024	1133885	08/14/2024
EPA 604.1	06	1132983	08/12/2024	1133537	08/14/2024

Sample	Sample ID	Taken	Time	Received
2324333	*ROBINSON CREEK EFFLUENT*	08/07/2024	08:00:00	08/09/2024

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 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1132820) Volume: 1.00000 mL <== Derived from 02 (992 ml)
Bottle 06 Prepared Bottle: 2 mL Autosampler Vial (Batch 1132983) Volume: 5.00000 mL <== Derived from 01 (971 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 632	05	1132820	08/12/2024	1133885	08/14/2024
EPA 604.1	06	1132983	08/12/2024	1133537	08/14/2024

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A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Project
1113941

Printed: 08/19/2024

RESULTS

Sample Results

2324328 AJ BROWN INFLUENT Received: 08/09/2024

Non-Potable Water Collected by: Client A & B Labs PO: 53197/24080709
Taken: 08/06/2024 07:20:00

EPA 604.1 Prepared: 1132983 08/12/2024 15:00:00 Analyzed 1133537 08/14/2024 20:40:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<0.00257	mg/L	0.00257		70-30-4	06

EPA 632 Prepared: 1132820 08/12/2024 13:20:00 Analyzed 1133885 08/13/2024 23:56:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<0.00255	mg/L	0.00255		63-25-2	05
z	Diuron	<0.0000459	mg/L	0.0000459		330-54-1	05

2324329 AJ BROWN EFFLUENT Received: 08/09/2024

Non-Potable Water Collected by: Client A & B Labs PO: 53197/24080709
Taken: 08/07/2024 08:00:00

EPA 604.1 Prepared: 1132983 08/12/2024 15:00:00 Analyzed 1133537 08/14/2024 12:08:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<0.00254	mg/L	0.00254		70-30-4	06

EPA 632 Prepared: 1132820 08/12/2024 13:20:00 Analyzed 1133885 08/14/2024 00:25:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<0.00255	mg/L	0.00255		63-25-2	05
z	Diuron	<0.000046	mg/L	0.000046		330-54-1	05

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2324330 NB DAVIDSON INFLUENT

Received: 08/09/2024

Non-Potable Water | Collected by: Client | A & B Labs | PO: 53197/24080709
Taken: 08/06/2024 08:00:00

EPA 604.1 Prepared: 1132983 08/12/2024 15:00:00 Analyzed 1133537 08/14/2024 13:15:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<0.0026**	**mg/L**	0.0026		**70-30-4**	06

EPA 632 Prepared: 1132820 08/12/2024 13:20:00 Analyzed 1133885 08/14/2024 01:23:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<0.00256**	**mg/L**	0.00256		**63-25-2**	05
z	**Diuron**	**<0.0000461**	**mg/L**	0.0000461		**330-54-1**	05

2324331 NB DAVIDSON EFFLUENT

Received: 08/09/2024

Non-Potable Water | Collected by: Client | A & B Labs | PO: 53197/24080709
Taken: 08/07/2024 08:00:00

EPA 604.1 Prepared: 1132983 08/12/2024 15:00:00 Analyzed 1133537 08/14/2024 13:48:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<0.00261**	**mg/L**	0.00261		**70-30-4**	06

EPA 632 Prepared: 1132820 08/12/2024 13:20:00 Analyzed 1133885 08/14/2024 01:52:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<0.0026**	**mg/L**	0.0026		**63-25-2**	05
z	**Diuron**	**<0.0000467**	**mg/L**	0.0000467		**330-54-1**	05

2324332 ROBINSON CREEK INFLUENT

Received: 08/09/2024

Non-Potable Water | Collected by: Client | A & B Labs | PO: 53197/24080709
Taken: 08/06/2024 08:30:00

EPA 604.1 Prepared: 1132983 08/12/2024 15:00:00 Analyzed 1133537 08/14/2024 14:53:00 BRU

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Printed: 08/19/2024

2324332 ROBINSON CREEK INFLUENT

Received: 08/09/2024

Non-Potable Water | Collected by: Client | A & B Labs | PO: 53197/24080709
Taken: 08/06/2024 08:30:00

EPA 604.1 — Prepared: 1132983 08/12/2024 15:00:00 — Analyzed 1133537 08/14/2024 14:53:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<0.00258**	**mg/L**	0.00258		**70-30-4**	06

EPA 632 — Prepared: 1132820 08/12/2024 13:20:00 — Analyzed 1133885 08/14/2024 02:20:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<0.00257**	**mg/L**	0.00257		**63-25-2**	05
z	**Diuron**	**<0.0000462**	**mg/L**	0.0000462		**330-54-1**	05

2324333 ROBINSON CREEK EFFLUENT

Received: 08/09/2024

Non-Potable Water | Collected by: Client | A & B Labs | PO: 53197/24080709
Taken: 08/07/2024 08:00:00

EPA 604.1 — Prepared: 1132983 08/12/2024 15:00:00 — Analyzed 1133537 08/14/2024 15:26:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<0.00257**	**mg/L**	0.00257		**70-30-4**	06

EPA 632 — Prepared: 1132820 08/12/2024 13:20:00 — Analyzed 1133885 08/14/2024 03:18:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<0.00252**	**mg/L**	0.00252		**63-25-2**	05
z	**Diuron**	**<0.0000454**	**mg/L**	0.0000454		**330-54-1**	05

Sample Preparation

2324328 AJ BROWN INFLUENT

Received: 08/09/2024

53197/24080709

08/06/2024

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2324328 AJ BROWN INFLUENT — Received: 08/09/2024

53197/24080709

08/06/2024

		Prepared:		08/09/2024	16:29:07	Calculated		08/09/2024	16:29:07 CAL
z	Environmental Fee (per Project)	Verified							
EPA 604.1		Prepared:	1132983	08/12/2024	15:00:00	Analyzed	1132983	08/12/2024	15:00:00 MCC
	Hexachlorophene Extraction	5/973	ml						01
EPA 604.1		Prepared:	1132983	08/12/2024	15:00:00	Analyzed	1133537	08/14/2024	20:40:00 BRU
	Hexachlorophene Expansion	Entered						70-30-4	06
EPA 632		Prepared:	1132820	08/12/2024	13:20:00	Analyzed	1132820	08/12/2024	13:20:00 LSM
	Liquid-Liquid Extr. W/Hex Ex	1/981	ml						02
EPA 632		Prepared:	1132820	08/12/2024	13:20:00	Analyzed	1133885	08/13/2024	23:56:00 BRU
NELAC	Carbaryl/Diuron	Entered							05

2324329 AJ BROWN EFFLUENT — Received: 08/09/2024

53197/24080709

08/07/2024

EPA 604.1		Prepared:	1132983	08/12/2024	15:00:00	Analyzed	1132983	08/12/2024	15:00:00 MCC
	Hexachlorophene Extraction	5/986	ml						01
EPA 604.1		Prepared:	1132983	08/12/2024	15:00:00	Analyzed	1133537	08/14/2024	12:08:00 BRU
	Hexachlorophene Expansion	Entered						70-30-4	06

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2324329 AJ BROWN EFFLUENT — Received: 08/09/2024

53197/24080709

08/07/2024

EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1132820*	*08/12/2024*	*13:20:00*		*LSM*
Liquid-Liquid Extr. W/Hex Ex	**1/979**	**ml**								02
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1133885*	*08/14/2024*	*00:25:00*		*BRU*
NELAC **Carbaryl/Diuron**	**Entered**									05

2324330 NB DAVIDSON INFLUENT — Received: 08/09/2024

53197/24080709

08/06/2024

EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1132983*	*08/12/2024*	*15:00:00*		*MCC*
Hexachlorophene Extraction	**5/962**	**ml**								01
EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1133537*	*08/14/2024*	*13:15:00*		*BRU*
Hexachlorophene Expansion	**Entered**								**70-30-4**	06
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1132820*	*08/12/2024*	*13:20:00*		*LSM*
Liquid-Liquid Extr. W/Hex Ex	**1/976**	**ml**								02
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1133885*	*08/14/2024*	*01:23:00*		*BRU*
NELAC **Carbaryl/Diuron**	**Entered**									05

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2324331 NB DAVIDSON EFFLUENT — Received: 08/09/2024

53197/24080709

08/07/2024

EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1132983*	*08/12/2024*	*15:00:00*	*MCC*
Hexachlorophene Extraction	**5/958**	**ml**							01
EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1133537*	*08/14/2024*	*13:48:00*	*BRU*
Hexachlorophene Expansion	**Entered**						**70-30-4**		06
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1132820*	*08/12/2024*	*13:20:00*	*LSM*
Liquid-Liquid Extr. W/Hex Ex	**1/963**	**ml**							02
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1133885*	*08/14/2024*	*01:52:00*	*BRU*
NELAC **Carbaryl/Diuron**	**Entered**								05

2324332 ROBINSON CREEK INFLUENT — Received: 08/09/2024

53197/24080709

08/06/2024

EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1132983*	*08/12/2024*	*15:00:00*	*MCC*
Hexachlorophene Extraction	**5/969**	**ml**							01
EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1133537*	*08/14/2024*	*14:53:00*	*BRU*
Hexachlorophene Expansion	**Entered**						**70-30-4**		06
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1132820*	*08/12/2024*	*13:20:00*	*LSM*
Liquid-Liquid Extr. W/Hex Ex	**1/973**	**ml**							02

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2324332 ROBINSON CREEK INFLUENT — Received: 08/09/2024

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08/06/2024

EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1133885*	*08/14/2024*	*02:20:00*	*BRU*
NELAC **Carbaryl/Diuron**	**Entered**								05

2324333 ROBINSON CREEK EFFLUENT — Received: 08/09/2024

53197/24080709

08/07/2024

EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1132983*	*08/12/2024*	*15:00:00*	*MCC*
Hexachlorophene Extraction	**5/971**	**ml**							01
EPA 604.1	*Prepared:*	*1132983*	*08/12/2024*	*15:00:00*	*Analyzed*	*1133537*	*08/14/2024*	*15:26:00*	*BRU*
Hexachlorophene Expansion	**Entered**						**70-30-4**		06
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1132820*	*08/12/2024*	*13:20:00*	*LSM*
Liquid-Liquid Extr. W/Hex Ex	**1/992**	**ml**							02
EPA 632	*Prepared:*	*1132820*	*08/12/2024*	*13:20:00*	*Analyzed*	*1133885*	*08/14/2024*	*03:18:00*	*BRU*
NELAC **Carbaryl/Diuron**	**Entered**								05

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Printed: 08/19/2024

Qualifiers:

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

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

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

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

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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Printed 08/19/2024

Analytical Set 1133537 — EPA 604.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1132983	ND	0.890	2.50	ug/L	126659659

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5320	5000	ug/L	106	70.0 - 130	126659658
Hexachlorophene	5370	5000	ug/L	107	70.0 - 130	126659665
Hexachlorophene	5290	5000	ug/L	106	70.0 - 130	126659669
Hexachlorophene	5420	5000	ug/L	108	70.0 - 130	126659673
Hexachlorophene	5420	5000	ug/L	108	70.0 - 130	126659677
Hexachlorophene	5100	5000	ug/L	102	70.0 - 130	126659681
Hexachlorophene	5570	5000	ug/L	111	70.0 - 130	126659683
Hexachlorophene	5460	5000	ug/L	109	70.0 - 130	126659686
Hexachlorophene	5530	5000	ug/L	111	70.0 - 130	126659689
Hexachlorophene	5940	5000	ug/L	119	70.0 - 130	126659690
Hexachlorophene	5910	5000	ug/L	118	70.0 - 130	126659694

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1132983	26.8	32.2	50.0	25.5 - 145	53.6	64.4	ug/L	18.3	50.0

Analytical Set 1133885 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1132820	ND	66.1	2500	ug/L	126668987
Diuron	1132820	ND	44.4	45.0	ug/L	126668987

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1100	1000	ug/L	110	70.0 - 130	126668986
Carbaryl (Sevin)	1120	1000	ug/L	112	70.0 - 130	126668990
Carbaryl (Sevin)	1090	1000	ug/L	109	70.0 - 130	126668991
Carbaryl (Sevin)	1180	1000	ug/L	118	70.0 - 130	126668994
Carbaryl (Sevin)	1060	1000	ug/L	106	70.0 - 130	126668998
Carbaryl (Sevin)	1250	1000	ug/L	125	70.0 - 130	126669000
Diuron	1040	1000	ug/L	104	70.0 - 130	126668986
Diuron	1090	1000	ug/L	109	70.0 - 130	126668990
Diuron	1040	1000	ug/L	104	70.0 - 130	126668991
Diuron	1170	1000	ug/L	117	70.0 - 130	126668994
Diuron	1010	1000	ug/L	101	70.0 - 130	126668998
Diuron	1230	1000	ug/L	123	70.0 - 130	126669000

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1132820	945	973	1000	17.1 - 131	94.5	97.3	ug/L	2.92	30.0

Email: Kilgore.ProjectManagement@spllabs.com

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Diuron	1132820	872	86.0	1000	0.100 - 138	87.2	8.60	ug/L	164 *	30.0

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

Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.)

1113941 CoC Print Group 001 of 001

Subcontract Laboratory Chain-of-Custody

A & B Labs	Send To:	Report To:	Turnaround Time:
10100 East Freeway	Company: SPL Kilgore Corporation	Company: A&B Labs	**Standard: 5 Day**
Suite 100	Address: 2600 Dudley Rd.	Address: 10100 East Frwy Suite 100	
Houston, TX 77029	City: Kilgore, TX 75663	Houston, TX 77029	**Need Results by:**
713-453-6060	Contact: Sample Receiving/Skeeter	Contact: Alisha Hughes/Amanda Shute	**PO# 53197/24080709**
713-453-6091 fax	Phone: 903-984-0551	Phone: 713-453-6060 xt 127	**Quote:**
info@ablabs.com	Email: skeeter@ana-lab.com	Email: reports@ablabs.com	
		CC:	

PLEASE EMAIL INVOICE TO: ACCOUNTSPAYABLE@ABLABS.COM

			Collection							G					**Container**	
										H					**Preservatives**	
Lab #	Item	Sample ID / Name	Date	Time	Comp	Grab	Matrix	# of Containers	Container Types	Diuron/Carbaryl	Hexachlorophene					Remarks:
24080709.01	1	AJ Brown Influent	8/6/2024	7:20	X		L	4		X	X					
24080709.03	2	AJ Brown Effluent	8/7/2024	8:00	X		L	4		X	X					
24080709.06	3	NB Davidson Influent	8/6/2024	8:00	X		L	4		X	X					
24080709.08	4	NB Davidson Effluent	8/7/2024	8:00	X		L	4		X	X					
24080709.11	5	Robinson Creek Influent	8/6/2024	8:30	X		L	4		X	X					
24080709.13	6	Robinson Creek Effluent	8/7/2024	8:00	X		L	4		X	X					
	7															
	8															
	9															
	10															

Matrix: **WW**-Wastewater **W**-Water **DW**-Drinking Water **S**-Soil **SD**-Solid **L**-Liquid **SL**-Sludge **O**-Oil **A**-Air Bag **Can**-Air Canister **B**-OVM Badge **T**-Tube
Preservatives: **C**-Cool/Ice **H**-HCl **N**-Nitric Acid **S**-Sulfuric Acid **OH**-NaOH **T**-Sodium Thiosulfate **O**- Other (specify)_____
Containers: **VOA**-40 ml vial **A**-amber 1 liter **G**-glass 1 liter **4oz** or **8oz** - 4/8 ounce glass **P**-Plastic

Relinquished By:	4/22/2015	Time		Received By:	Date	Time
	08/08/24	1500		FedEx	4/8/24	1500
FedEx	8/9/24	1000		R-2	4/9/24	1000

ab-s004-0309

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: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:
At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Laboratory Analysis Report

Total Number of Pages: 12

Job ID : 24121603

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

Client Project Name :
AJ Brown Permit Renewal Sampling

Report To :	Client Name:	City of Huntsville	P.O.#.: 2024-052
	Attn:	Daniel Martin	Sample Collected By: Daniel Martin
	Client Address:	445 TX-75	Date Collected: 12/11/24 - 12/12/24
	City, State, Zip:	Huntsville, Texas, 77320	

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

Client Sample ID	Matrix	A&B Sample ID
AJ Brown Effluent	Water	24121603.01
AJ Brown Effluent	Water	24121603.02

Released By: Gobinath Rangasamy
Title: Project Manager
Date: 12/19/2024

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.

ab-q210-0321

Date Received : 12/12/2024 13:59

24.1.21224

Report Number: RPT241219059

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 24121603

Date: 12/19/2024

General Term Definition

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

Qualifier Definition

M1	Matrix Spike and/or Matrix Spike Duplicate recovery is above laboratory control limits due to matrix interference. "The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."

LABORATORY TEST RESULTS

Job ID : 24121603

Date 12/19/2024

Client Name: City of Huntsville Attn: Daniel Martin

Project Name: AJ Brown Permit Renewal Sampling

Client Sample ID: AJ Brown Effluent
Date Collected: 12/11/24
Time Collected: 23:56
Other Information:

Job Sample ID: 24121603.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions								
	Chloride	108	mg/L	20.00	2			12/18/24 11:28	KPE
	Sulfate	88.4	mg/L	10.00	1			12/16/24 19:57	KPE
EPA 351.2	Total Kjeldahl Nitrogen								
	TKN	1.09	mg/L	1.00	0.2			12/18/24 23:13	SKC
SM 2320B	Alkalinity								
	Alkalinity	124.1	mg CaCO3/L	1	20			12/16/24 15:00	DPK
SM 2540C	Total Dissolved Solids								
	TDS	528	mg/L	1	10			12/16/24 16:01	AL
SM 4500P-E	Phosphorus								
	Phosphorus	2.34	mg/L	5.00	0.250			12/17/24 10:14	KL

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 24121603

Date 12/19/2024

Client Name: City of Huntsville

Attn: Daniel Martin

Project Name: AJ Brown Permit Renewal Sampling

Client Sample ID: AJ Brown Effluent
Date Collected: 12/12/24
Time Collected: 08:47
Other Information:

Job Sample ID: 24121603.02
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 1664B									
	Oil & Grease	BRL	mg/L	1.11	2.78			12/17/24 12:00	KTH

ab-q212-0321

QUALITY CONTROL CERTIFICATE

Job ID : 24121603 **Date :** 12/19/2024

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

QC Batch ID : Qb241216135 **Created Date :** 12/16/24 **Created By :** ALassile

Samples in This QC Batch : 24121603.01

Sample Preparation : PB24121648 **Prep Method :** SM 2540C **Prep Date :** 12/16/24 16:00 **Prep By :** ALassile

QC Type: Method Blank

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

QC Type: Duplicate

QC Sample ID: 24121603.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TDS	526	528	mg/L	0.4	5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	542	108.0						80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24121603 **Date :** 12/19/2024

Analysis : Alkalinity **Method : SM 2320B** **Reporting Units : mg CaCO3/L**

QC Batch ID : Qb241216143 **Created Date :** 12/16/24 **Created By :** DKunwar

Samples in This QC Batch : 24121603.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Alkalinity		BRL	mg CaCO3/L	1	20		

QC Type: Duplicate

QC Sample ID: 24121138.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Alkalinity	116.1	116.1	mg CaCO3	0.0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Alkalinity	1250	1261.3	101.0	1250	1251.3	100.0	0.8	20	91.7-114	

QUALITY CONTROL CERTIFICATE

Job ID : 24121603 **Date :** 12/19/2024

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

QC Batch ID : Qb24121734 **Created Date :** 12/16/24 **Created By :** KPerera

Samples in This QC Batch : 24121603.01

Sample Preparation : PB24121617 **Prep Method :** EPA 300.0 **Prep Date :** 12/16/24 11:00 **Prep By :** KPerera

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chloride	16887-00-6	BRL	mg/L	1.00	0.1		
Sulfate	14808-79-8	BRL	mg/L	1.00	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	1	0.998	99.8	1	0.951	95.1	4.8	20	90-110	
Sulfate	1	0.951	95.1	1	1.07	107	11.8	20	90-110	

QC Type: MS and MSD
QC Sample ID: 24121554.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	56.6	10	72.4	158						80-120	M1
Nitrite-N	BRL	10	13.3	133						80-120	M1
Nitrate-N	1.62	10	14.1	124						80-120	M1
Sulfate	51.9	10	68.2	164						80-120	M1

QUALITY CONTROL CERTIFICATE

Job ID : 24121603 **Date :** 12/19/2024

Analysis : **Method :** **EPA 1664B** **Reporting Units :** **mg/L**

QC Batch ID : Qb24121770 **Created Date :** 12/17/24 **Created By :** Karthick

Samples in This QC Batch : 24121603.02

Sample Preparation : PB24121716 **Prep Method :** EPA 1664B **Prep Date :** 12/17/24 11:00 **Prep By :** Karthick

QC Type: Method Blank

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

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
Oil & Grease	40	35.6	89.0	40	35.7	89.3	0.3	11	78-114	

QC Type: MS and MSD
QC Sample ID: 24121953.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Oil & Grease	BRL	40	40.4	98.3						78-114	

QUALITY CONTROL CERTIFICATE

Job ID : 24121603 **Date :** 12/19/2024

Analysis : Phosphorus **Method : SM 4500P-E** **Reporting Units : mg/L**

QC Batch ID : Qb24121796 **Created Date :** 12/17/24 **Created By :** KLyle

Samples in This QC Batch : 24121603.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Phosphorus	7723-14-0	BRL	mg/L	1	0.05		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Phosphorus	0.200	0.201	100.5	0.200	0.204	102.2	1.5	20	80-120	

QC Type: MS and MSD
QC Sample ID: 24121418.10

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Phosphorus	0.5346026	0.2	0.710	87.7	0.2	0.756	110.7	6.3	20	80-120	

QUALITY CONTROL CERTIFICATE

Job ID : 24121603 **Date :** 12/19/2024

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

QC Batch ID : Qb24121968 **Created Date :** 12/18/24 **Created By :** Srijan

Samples in This QC Batch : 24121603.01

Sample Preparation : PB24121929 **Prep Method :** EPA 351.2_ **Prep Date :** 12/18/24 10:00 **Prep By :** Srijan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TKN		BRL	mg/L	1.00	0.2		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TKN	5	5.13	103	5	5.22	104	1.7	10	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 24122039.01

Parameter	Sample Result	MS1 Spk Added	MS1 Result	MS1 % Rec	MSD1 Spk Added	MSD1 Result	MSD1 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TKN	1.23	5	6.58	107	5	6.58	107	0	10	90-110	

QC Type: MS2 and MSD2
QC Sample ID: 24121631.01

Parameter	Sample Result	MS2 Spk Added	MS2 Result	MS2 % Rec	MSD2 Spk Added	MSD2 Result	MSD2 % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
TKN	1.26	5	6.47	104	5	6.51	105	0.6	10	90-110	

The Chain of Custody is a Legal Document

Job ID:24121603

12/12/2024 City of Huntsville ACH

10100 East Freeway (I-10)

:9

oll Free

www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO #2024-052
Company: Parker Creek Lab	Company: City of Huntsville	4. Turnaround Time (Business Days)
Address:94 Parker Creek Rd	Address: 94 Parker Creek Rd	☐ 1 Day * ☐ Other
Huntsville, Texas 77320	Huntsville, Texas 77320	☐ 2 Days *
Contact: Daniel Martin	Contact: Daniel Martin	☐ 3 Days *
Phone: 936-294-5726	Phone: 936-294-5726	☐ 5 Days * * Surcharge
Fax: 936-295-9333	Fax: 936-295-9333	☑ 7 Days-Standard
Email: dmartin@huntsvilletx.gov	Email: dmartin@huntsvilletx.gov	
Email CC:	Email CC:	

A&B JOB ID

5. Project #

6. Project Name / Location

AJ Brown Permit Renewal Sampling

7. Reporting Requirement

☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**

Daniel Martin/COH Staff 94 Parker Creek Rd Huntsville Tx 77320 12-12-24

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	TKN/Phosphorus	TDS	Alkalinity/Sulfate/Chloride	Oil & Grease			18. Comments
													P	P	P	P			14. Containers*
													S	C	C	S			15. Preservatives**
																			16. pH-Lab Only
AJ Brown Effluent	01A	12-11-24	23:56	x		x						1	x						
AJ Brown Effluent	01B	12-11-24	23:56	x		x						1		x					
AJ Brown Effluent	01C	12-11-24	23:56	x		x						1			x				
AJ Brown Effluent	02 AB	12-12-24	08:47		x	x						2				x			

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1)	12-12-24	13:59				
2)						
3)			21.RECEIVED BY LABORATORY	12/12/24	13:59	

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **P/O**- Plastic/other

4 oz/8 oz- glass wide mouth

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

Temperature: 1.5c

Intact? ☑ Y ☐ N

Initials

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

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

Sample Condition Checklist

A&B JobID : **24121603**	Date Received : **12/12/2024**	Time Received : **1:59PM**
Client Name : **City of Huntsville**		
Temperature : **1.5°C**	Sample pH : **<2 TKN, Phosphorus**	
Thermometer ID : **IR7**	pH Paper ID : **122235**	
Perservative :	Lot# :	

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

Comments : Include actions taken to resolve discrepancies/problem:

Brought by : Client

Received by : Amber

Check in by/date : Amber / 12/12/2024

ab-s005-1123

ATTACHMENT G

Summary of WET Test Results
Wks 5.0 Section 1 & 3

ATTACHMENT G
CITY OF HUNTSVILLE
A.J. BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SUMMARY OF WET TEST RESULTS

CHRONIC BIOMONITORING

Date	Test Species	IC 25 Survival	IC 25 Reproduction
09/22/2020	*Ceriodaphnia dubia*	>100%	>100%
09/22/2020	*Pimephales promelas*	>100%	>100%
11/03/2020	*Ceriodaphnia dubia*	>100%	>100%
11/03/2020	*Pimephales promelas*	>100%	>100%
03/23/2021	*Ceriodaphnia dubia*	>100%	>100%
03/23/2021	*Pimephales promelas*	>100%	>100%
05/11/2021	*Ceriodaphnia dubia*	>100%	>100%
05/11/2021	*Pimephales promelas*	>100%	>100%
07/13/2021	*Ceriodaphnia dubia*	>100%	>100%
07/13/2021	*Pimephales promelas*	>100%	>100%
10/12/2021	*Ceriodaphnia dubia*	>100%	>100%
10/12/2021	*Pimephales promelas*	>100%	>100%
02/22/2022	*Ceriodaphnia dubia*	>100%	>100%
02/22/2022	*Pimephales promelas*	>100%	>100%
07/12/2022	*Ceriodaphnia dubia*	>100%	>100%
02/14/2023	*Ceriodaphnia dubia*	>100%	>100%
02/14/2023	*Pimephales promelas*	>100%	>100%
08/15/2023	*Ceriodaphnia dubia*	>100%	>100%
02/20/2024	*Ceriodaphnia dubia*	>100%	>100%
02/20/2024	*Pimephales promelas*	>100%	>100%
07/16/2024	*Ceriodaphnia dubia*	>100%	>100%

ATTACHMENT G
CITY OF HUNTSVILLE
A.J. BROWN/PARKER CREEK WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SUMMARY OF WET TEST RESULTS

ACUTE BIOMONITORING

Date	Test Species	LC50
09/22/2020	*Ceriodaphnia dubia*	>100%
09/22/2020	*Pimephales promelas*	>100%
03/23/2021	*Ceriodaphnia dubia*	>100%
03/23/2021	*Pimephales promelas*	>100%
07/13/2021	*Ceriodaphnia dubia*	>100%
07/13/2021	*Pimephales promelas*	>100%
02/22/2022	*Ceriodaphnia dubia*	>100%
02/22/2022	*Pimephales promelas*	>100%
07/12/2022	*Pimephales promelas*	>100%
07/12/2022	*Ceriodaphnia dubia*	>100%
02/14/2023	*Ceriodaphnia dubia*	>100%
02/14/2023	*Pimephales promelas*	>100%
08/15/2023	*Pimephales promelas*	>100%
08/15/2023	*Ceriodaphnia dubia*	>100%
02/20/2024	*Ceriodaphnia dubia*	>100%
02/20/2024	*Pimephales promelas*	>100%
07/16/2024	*Pimephales promelas*	>100%

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

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

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

City of Huntsville (CN600745566) operates A.J. Brown/Parker Creek Wastewater Treatment Facility (RN101612471), a sequencing batch reactor treatment facility. The facility is located at 94 Parker Creek Road, in Huntsville, Walker County, Texas 77320. This application is for a permit renewal to discharge treated domestic wastewater at an annual average flow not to exceed 4,500,000 gallons per day.

Discharges from the facility are expected to contain 5-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, and *E. coli*. Domestic wastewater is treated by bar screens, mechanical screens, grit removal, flow equalization basins, sequencing batch reactors, chlorine contact basins, dechlorination, post-aeration, aerated solids storage, solids dewatering volute press, and solids drying beds.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS /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.

La ciudad de Huntsville (CN600745566) opera la instalación de tratamiento de aguas residuales de AJ Brown/Parker Creek (RN101612471), una instalación de tratamiento con reactor discontinuo secuencial. La instalación está ubicada en 94 Parker Creek Road, en la ciudad de Huntsville, Condado de Walker, Texas 77320. Esta solicitud es para renovar un permiso para descargar aguas residuales domésticas tratadas con un caudal promedio anual que no exceda los 4.500.000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso de 5 días, sólidos suspendidos totales, nitrógeno amoniacal y *E. coli*. aguas residuales domésticas están tratado por rejillas de barras, pantallas mecánicas, eliminación de arena, cuencas de ecualización de flujo, reactores discontinuos secuenciales, cuencas de contacto con cloro, decloración, post-aireación, almacenamiento de sólidos aireados, prensa de voluta para deshidratación de sólidos y lechos de secado de sólidos.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose “operates” in this section for existing facility applications or choose “proposes to operate” for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose “is” for an existing facility or “will be” for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

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.

Example

Individual Industrial Wastewater 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 TAC 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.

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

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: 656074

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Huntsville

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐ N/A

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

Candice Calhoun

From: Griesel, Jenni <jgriesel@plummer.com>
Sent: Thursday, February 6, 2025 1:51 PM
To: Candice Calhoun
Cc: Lewis, Ashley; Stacy Lawler
Subject: Re: Application to Renew Permit No. WQ0010781003 - Notice of Deficiency
Attachments: dom-tpdes-renew-nori-murechno.docx

Hi Candice,

Here are our responses to your NOD:

1. The core data form is allowed to have multiple addresses. Please use "1212 Avenue M" for the address in the permit, as is listed in Item 15 of the Core Data Form as the Customer Address. No corrections are required.
2. We have reviewed the NORI language and have no additional comments.
3. Please see the attached Spanish translation of the NORI excerpt.

Thank you,

Jenni Griesel, P.E.
Project Engineer
Plummer

8911 N Capital of Texas Hwy, Bldg 1 - Ste 1250
Austin, Texas 78759
512-687-2193

From: Lewis, Ashley <alewis@plummer.com>
Sent: Thursday, February 6, 2025 12:06 PM
To: Griesel, Jenni <jgriesel@plummer.com>
Subject: Fw: Application to Renew Permit No. WQ0010781003 - Notice of Deficiency

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From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, February 6, 2025 11:11:57 AM
To: wlawler@huntsvilletx.gov <wlawler@huntsvilletx.gov>
Cc: Lewis, Ashley <alewis@plummer.com>
Subject: Application to Renew Permit No. WQ0010781003 - Notice of Deficiency

Good morning, Mr. Lawler,

The attached Notice of Deficiency (NOD) letter dated **February 6, 2025,** requests additional information needed to declare the application administratively complete. Please send complete response, via email, by **February 20, 2025.**

Please let me know if you have any questions.

Regards,

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

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