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

City of Houston
Turkey Creek WWTF
WQ0010495109

Plain Language Summary

DOMESTIC WASTEWATER

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 Houston (CN600128995) operates the Turkey Creek Wastewater Treatment Facility (RN101607836), an activated sludge wastewater treatment facility. The facility is located at 1147 Enclave Parkway, in Houston, Harris County, Texas 77077.

This application is for a renewal to discharge an annual average flow of 12,000,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia-nitrogen (NH3-N), and *Escherichia coli (E. coli).* Additional potential pollutants are included in the permit application package in Domestic Technical Report 1.0, Section 7 – Pollutant Analysis of Treated Effluent and Domestic Technical Report 4.0. Domestic Wastewater is treated by activated sludge with combined nitrification. Treatment units include bar screens for preliminary treatment, aeration basins for biological treatment, secondary clarifiers for solids settling, chlorine contact basins for disinfection, and dechlorination before discharge to the receiving stream. Solids from the facility are pumped offsite for further treatment and disposal.

City of Houston
Turkey Creek WWTF
WQ0010495109

Resumen en Lenguaje Sencillo

AGUAS RESIDUALES DOMÉSTICAS

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 son representaciones federales exigibles de la solicitud de permiso.

La ciudad de Houston (CN600128995) opera la instalación de tratamiento de aguas residuales Turkey Creek Wastewater Treatment Facility (RN101607836), un lodos activados - aireación prolongada instalación de tratamiento de aguas residuales. La instalación está situada en 1147 Enclave Parkway, Houston, en el condado de Harris, Texas 77077.

Esta solicitud es para la renovación para descargar un flujo medio anual de 12.000.000 galones por día de aguas residuales domesticas tratadas por el emisario 001.

Se espera que los vertidos de la instalación contengan demanda bioquímica de oxígeno carbónico de cinco días (CBOD5), sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N), y Escherichia coli (E. coli). Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7 - Análisis de Contaminantes del Efluente Tratado y en la hoja de trabajo doméstica 4.0. Las aguas residuales domésticas se tratan con lodos activados con nitrificación combinada. Las unidades de tratamiento incluyen pantalla de barra para tratamiento preliminar, cuencas de aireación y canales para tratamiento biológico, clarificadores secundario para la sedimentación de sólidos, cuenca de contacto con el cloro para la desinfección y decloración antes de la descarga a la corriente receptora. Sólidos de la p66instalación se bombeado fuera del sitio para tratamiento adicionales y eliminación.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010495109

APPLICATION. City of Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495109 (EPA I.D. No. TX0035017) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 12,000,000 gallons per day. The domestic wastewater treatment facility is located at 1147 Enclave Parkway, in the city of Houston, in Harris County, Texas 77077. The discharge route is from the plant site directly to Buffalo Bayou Tidal. TCEQ received this application on May 29, 2025. The permit application will be available for viewing and copying at Houston Public Works, Wastewater Operations Building, 10500 Bellaire Boulevard, Houston, in Harris 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=-95.62071,29.76751&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 Houston at the address stated above or by calling Mr. Walid Samarneh, P.E., Managing Engineer, at 832-395-5771.

Issuance Date: June 18, 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. WQ0010495109

SOLICITUD. Cuidad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010495109 (EPA I.D. No. TX0035017) 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 12,000,000 galones por día. La planta de tratamiento de aguas residuales domésticas está ubicada en 1147 Enclave Parkway, en la Cuidad de Houston, el Condado de Harris, Texas 77077. La ruta de descarga es del sitio de la planta directamente al marea del patano Buffalo Bayou Tidal. La TCEQ recibió esta solicitud el 29 de mayo de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Departamento de Trabajos Públicos de Houston, Operaciones de Wastewater edificio, 10500 Bellaire Boulevard, Houston, Condado de Harris, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible 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=-95.62071,29.76751&level=18

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar

la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia

administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del 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 envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía http://www14.tceq.texas.gov/epic/eComment/o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Cuidad de Houston a la dirección indicada arriba o llamando a Sr. Walid Samarneh, P.E., Gerente de Ingeniería, al 832-395-5771.

Fecha de emisión: 18 de junio de 2025

Application to Renew

TPDES Permit Number WQ0010495109

Turkey Creek Wastewater Treatment Facility

Prepared Spring 2025

Application to Renew TPDES Permit Number WQ0010495109
Turkey Creek Wastewater Treatment Facility

Permit Application Forms

Administrative Report 1.0
Technical Report 1.0
Worksheet 2.0
Worksheet 4.0
Worksheet 5.0
Worksheet 6.0

Attachments

1	Copy of Application Fee Check	Administrative Report 1.0, Section 1
2	Core Data Form	Administrative Report 1.0, Section 3.C.
3	Plain Language Summary	Administrative Report 1.0, Section 8.F.
4	USGS Map	Administrative Report 1.0, Section 13
5	Supplemental Permit Information Form	SPIF
6	Treatment Units	Technical Report 1.0, Section 2.B.
7	Process Flow Diagram	Technical Report 1.0, Section 2.C.
8	Site Drawing	Technical Report 1.0, Section 3
9	Laboratory Test Reports and COCs	Technical Report 1.0, Section 7, Table 1.0(2)
		Worksheet 4.0, Section 1
		Worksheet 4.0, Section 2
10	Facility Operators	Technical Report 1.0, Section 8
11	WET Test Reports	Worksheet 5.0, Section 1
		Worksheet 5.0, Section 3
12	Effluent Parameters Above the MAL	Worksheet 6.0, Section 2.C.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Houston

PERMIT NUMBER (If new, leave blank): WQ0010495109

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 21119220 **Attachment 1**

Check/Money Order Amount: $2015

Name Printed on Check: City of Houston

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: N/A

f. For existing permits:

Permit Number: WQ00 10495109

EPA I.D. (TPDES only): TX 0035017

Expiration Date: December 29, 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 Houston

(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: 600128995

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: Macchi, Randall V.

Title: Director, Houston Public Works Credential: N/A

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: Click to enter text.

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

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

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

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. **Attachment 2**

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: Samarneh, Walid

Title: Managing Engineer, Houston Public Works Credential: P.E.

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 E-mail Address: walid.samarneh@houstontx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

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

Organization Name: Click to enter text.

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

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

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: Macchi, Randall V.

Title: Director, Houston Public Works Credential: N/A

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-2500 E-mail Address: randy.macchi@houstontx.gov

B. Prefix: Mr. Last Name, First Name: Whitmire, John

Title: Mayor Credential: N/A

Organization Name: City of Houston

Mailing Address: PO Box 1562 City, State, Zip Code: Houston, Texas 77251

Phone No.: 713-837-0311 E-mail Address: mayor@houstontx.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: Samarneh, Walid

Title: Managing Engineer, Houston Public Works Credential: P.E.

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 E-mail Address: walid.samarneh@houstontx.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: Samarneh, Walid

Title: Managing Engineer, Houston Public Works Credential: P.E.

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 E-mail Address: walid.samarneh@houstontx.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Samarneh, Walid

Title: Managing Engineer, Houston Public Works Credential: P.E.

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 E-mail Address: walid.samarneh@houstontx.gov

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: Samarneh, Walid

Title: Managing Engineer, Houston Public Works Credential: P.E.

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 E-mail Address: walid.samarneh@houstontx.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 Houston, Houston Public Works, Wastewater Operations Building

Location within the building: Library

Physical Address of Building: 10500 Bellaire Boulevard

City: Houston County: Harris

Contact (Last Name, First Name): Samarneh, Walid

Phone No.: 832-395-5771 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. Summary of Application in Plain Language Template

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

Attachment: 3

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 101607836

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):

Turkey Creek WWTF

C. Owner of treatment facility: City of Houston

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

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

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

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

Organization Name: City of Houston

Mailing Address: 10500 Bellaire Boulevard City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 E-mail Address: walid.samarneh@houstontx.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: Click to enter text.

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Houston

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

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

☒ Yes ☐ No

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

☒ Authorization granted ☐ Authorization pending

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

Attachment: N/A

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Harris, Chambers, and Galveston Counties

N/A Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

Click to enter text.

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

☒ Original full-size USGS Topographic Map with the following information: **Attachment 4**

- 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: WQ0010495109

Applicant: City of Houston

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): Randall V. Macchi

Signatory title: Director, Houston Public Works

Signature: _____ Date: 5/22/25

(Use blue ink)

Subscribed and Sworn to before me by the said Randall V. Macchi

on this 22nd day of May, 20 25.

My commission expires on the 14th day of January, 20 26.

_____

Notary Public

LORENA P. PEREZ
My Notary ID # 128149902
Expires January 14, 2026

[SEAL]

Harris

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: 5

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Summary of Application (in Plain Language) ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 12.00

2-Hr Peak Flow (MGD): 64.1

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase: Existing

Provide the startup date of the facility: 1988

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Influent goes through a bar screen (02), followed by biological treatment using activated sludge (24 biological nitrification-combined), followed by secondary clarification (22), chlorination (51), dechlorination (50), and discharge to the receiving stream via Outfall 001. Sludge is transported to the 69th Street WWTP or another City of Houston wastewater treatment facility for further treatment and 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)
Attachment 6		

C. Process Flow Diagram

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

Attachment: 7

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

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

- Latitude: 29.76704
- Longitude: -95.61902

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: 8

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

The Turkey Creek WWTF service area is primarily a residential area with a commercial area along I-10, Highway 6, and Eldridge

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
Turkey Creek service area	City of Houston	**Publicly Owned**	12300
West Harris County MUD 16	West Harris County MUD 16	**Publicly Owned**	1175
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: Prior to 1988, approval letter dated January 3, 2006 for the existing 12 MGD (peak 44,514 gpm) phase.

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☒ Yes ☐ No

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

Sludge records are maintained according to Other Requirements No. 5.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

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 FF91 or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

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.
Click to enter text.

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

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

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

☐ Yes ☐ No

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

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 49)

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **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 Attachment 9

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3.57	3.57	1	Comp	3/7/25 @ 8:00am
Total Suspended Solids, mg/l	12.6	12.6	1	Comp	3/7/25 @ 8:00am
Ammonia Nitrogen, mg/l	1.66	1.66	1	Comp	3/7/25 @ 8:00am
Nitrate Nitrogen, mg/l	9.78	9.78	1	Comp	3/7/25 @ 8:00am
Total Kjeldahl Nitrogen, mg/l	2.06	2.06	1	Comp	3/7/25 @ 8:00am
Sulfate, mg/l	70.6	70.6	1	Comp	3/7/25 @ 8:00am
Chloride, mg/l	116	116	1	Comp	3/7/25 @ 8:00am
Total Phosphorus, mg/l	2.440	2.440	1	Comp	3/7/25 @ 8:00am
pH, standard units	7.77	7.77	1	Grab	3/7/25 @ 8:55am
Dissolved Oxygen*, mg/l	8.37	8.37	1	Grab	3/7/25 @ 8:55am
Chlorine Residual, mg/l	<0.100	<0.100	1	Grab	3/7/25 @ 8:55am
E.coli (CFU/100ml) freshwater	<1	<1	1	Grab	3/7/25 @ 8:55am
Entercocci (CFU/100ml) saltwater	N/A				
Total Dissolved Solids, mg/l	548	548	1	Comp	3/7/25 @ 8:00am
Electrical Conductivity, µmohs/cm, †	N/A				
Oil & Grease, mg/l	<1.97	<1.97	1	Grab	3/6/25 @ 11:07am
Alkalinity ($CaCO_3$)*, mg/l	128	128	1	Comp	3/7/25 @ 8:00am

*TPDES permits only
†TLAP permits only

N/A **Table1.0(3) – Pollutant Analysis for Water Treatment Facilities**

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Attachment 10

Facility Operator's License Classification and Level: Click to enter text.

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

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Sewage Sludge or Biosolids Management

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

permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	On-Site Owner or Operator	Not Applicable	309.2	Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Pumped to a COH-owned WWTF

D. Disposal site

Disposal site name: City of Houston 69th Street WWTP

TCEQ permit or registration number: WQ0010495090

County where disposal site is located: Harris

E. Transportation method

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

Name of the hauler: N/A

Hauler registration number: N/A

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☒ Yes ☐ No

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

Storm Water Permit No. TXR05FF91
30 TAC 210 Reuse Authorization No. R10495109

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:

On March 31, 2021 the U.S. District Court for the Southern District of Texas approved entry of a Consent Decree (Civil ActionNo.4:18-cv-03368) embodying the agreement of the City of Houston ("City") with the United States Environmental Protection Agency ("EPA") and the State of Texas ("State") to improve the City's Wastewater Treatment and Collection System including requirements to address sanitary sewer overflows ("SSOs") and wastewater treatment plant permit exceedances. The consent decree provides formal authorization for the City to continue and build upon its prior and ongoing work for wastewater assessment and rehabilitation programs over the next 15 years. Details of the approved consent decree are posted on the City's website at https://www.publicworks.houstontx.gov/.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Randall V. Macchi

Title: Director, Houston Public Works

Signature: _____

Date: 5/22/25

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 63)

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☒ Yes ☐ No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

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

Grab ☐ Composite ☒ Attachment 9

Date and time sample(s) collected: 03/06/25 @ 10:06 pm, 03/07/25 @ 8:00 am

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	20.6	20.6	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	1.81	1.81	1	0.5
Barium	145	145	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	14.7	14.7	1	10
Bromoform	<10	<10	1	10
Cadmium	<1	<1	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	<10	<10	1	10
Chloroform	41.9	41.9	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	5.97	5.97	1	2
Chrysene	<5	<5	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)	<0.20	<0.20	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	<5	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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron	<0.09	<0.09	1	0.09
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
Epichlorohydrin	<25	<25	1	---
Ethylbenzene	<10	<10	1	10
Ethylene Glycol	N/A			---
Fluoride	949	949	1	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	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
4,4'-Isopropylidenediphenol	<5	<5	1	1
Lead	<0.5	<0.5	1	0.5
Malathion	<0.1	<0.1	1	0.1
Mercury	0.00523	0.00523	1	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Methyl tert-butyl ether	<5	<5	1	---
Mirex	<0.02	<0.02	1	0.02

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Nickel	<2	<2	1	2
Nitrate-Nitrogen	9780	9780	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)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5
Phenanthrene	<10	<10	1	10
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	34.4	34.4	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 ☒ Attachment 9

Date and time sample(s) collected: 03/06/25 @ 10:06 pm, 03/07/25 @ 8:00 am

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

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony	<5	<5	1	5
Arsenic	1.81	1.81	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)**	0.803	0.803	1	N/A
Copper	5.97	5.97	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	0.00523	0.00523	1	0.005
Nickel	<2	<2	1	2
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	34.4	34.4	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	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	41.9	41.9	1	10
Dichlorobromomethane [Bromodichloromethane]	14.7	14.7	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		10
2,4-Dichlorophenol	<10	<10		10
2,4-Dimethylphenol	<10	<10		10
4,6-Dinitro-o-Cresol	<50	<50		50
2,4-Dinitrophenol	<50	<50		50
2-Nitrophenol	<20	<20		20
4-Nitrophenol	<50	<50		50
P-Chloro-m-Cresol	<10	<10		10
Pentalchlorophenol	<5	<5		5
Phenol	<10	<10		10
2,4,6-Trichlorophenol	<10	<10		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	<5	1	5
Benzo(a)Pyrene	<5	<5	1	5
3,4-Benzofluoranthene	<10	<10	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5	<5	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	<5	1	5
Dibenzo(a,h)Anthracene	<5	<5	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	<5	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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluoranthene	<10	<10	1	10
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5	<5	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	<5	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: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 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 Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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: Attachment 11

48-hour Acute: Click to enter text.

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.

Click to enter text.

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
	Attachment 11		

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 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

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

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

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

A. Substantial modifications

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

☐ Yes ☒ No

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

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
Attachment 12				

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

N/A

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

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

Attachment 1

Copy of Application Fee Check

Administrative Report 1.0, Section 1

Attachment 2

Core Data Form

Administrative Report 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 600128995		**RN 101607836**

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 Houston

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
		746001164	

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:

10500 Bellaire Boulevard

City	Houston	**State**	TX	**ZIP**	77072	**ZIP + 4**	5212

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	walid.samarneh@houstontx.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(832) 395-5771		(832) 395-5838

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.)*

Turkey Creek Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	1147 Enclave Parkway							
	City	Houston	**State**	TX	**ZIP**	77077	**ZIP + 4**	
24. County								

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

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	
Houston			TX	77077	

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:	29.76751		**28. Longitude (W) In Decimal:**	-95.62071	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		22132	

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

This facility treats domestic wastewater

34. Mailing Address:	**10500 Bellaire Boulevard**							
	City	**Houston**	**State**	**TX**	**ZIP**	**77072**	**ZIP + 4**	**5212**
35. E-Mail Address:	**walid.samarneh@houstontx.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(832) 395-5771		**(832) 395-5838**

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

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

SECTION IV: Preparer Information

40. Name:	Arielle Fragassi	**41. Title:**	Environmental Investigator IV

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(832) 395-5755		(832) 395-5838	arielle.fragassi@houstontx.gov

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 Houston, Houston Public Works	**Job Title:**	Director, Houston Public Works
Name *(In Print):*	Randall V. Macchi	**Phone:**	(832) 395- **2500**
Signature:		**Date:**	5/22/25

Attachment 3

Plain Language Summary

Administrative Report 1.0, Section 8.F.

City of Houston
Turkey Creek WWTF
WQ0010495109

Plain Language Summary

DOMESTIC WASTEWATER

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 Houston (CN600128995) operates the Turkey Creek Wastewater Treatment Facility (RN101607836), an activated sludge wastewater treatment facility. The facility is located at 1147 Enclave Parkway, in Houston, Harris County, Texas 77077.

This application is for a renewal to discharge an annual average flow of 12,000,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia-nitrogen (NH3-N), and *Escherichia coli (E. coli).* Additional potential pollutants are included in the permit application package in Domestic Technical Report 1.0, Section 7 – Pollutant Analysis of Treated Effluent and Domestic Technical Report 4.0. Domestic Wastewater is treated by activated sludge with combined nitrification. Treatment units include bar screens for preliminary treatment, aeration basins for biological treatment, secondary clarifiers for solids settling, chlorine contact basins for disinfection, and dechlorination before discharge to the receiving stream. Solids from the facility are pumped offsite for further treatment and disposal.

City of Houston
Turkey Creek WWTF
WQ0010495109

Resumen en Lenguaje Sencillo

AGUAS RESIDUALES DOMÉSTICAS

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 son representaciones federales exigibles de la solicitud de permiso.

La ciudad de Houston (CN600128995) opera la instalación de tratamiento de aguas residuales Turkey Creek Wastewater Treatment Facility (RN101607836), un lodos activados - aireación prolongada instalación de tratamiento de aguas residuales. La instalación está situada en 1147 Enclave Parkway, Houston, en el condado de Harris, Texas 77077.

Esta solicitud es para la renovación para descargar un flujo medio anual de 12.000.000 galones por día de aguas residuales domesticas tratadas por el emisario 001.

Se espera que los vertidos de la instalación contengan demanda bioquímica de oxígeno carbónico de cinco días (CBOD5), sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N), y Escherichia coli (E. coli). Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7 - Análisis de Contaminantes del Efluente Tratado y en la hoja de trabajo doméstica 4.0. Las aguas residuales domésticas se tratan con lodos activados con nitrificación combinada. Las unidades de tratamiento incluyen pantalla de barra para tratamiento preliminar, cuencas de aireación y canales para tratamiento biológico, clarificadores secundario para la sedimentación de sólidos, cuenca de contacto con el cloro para la desinfección y decloración antes de la descarga a la corriente receptora. Sólidos de la p66instalación se bombeado fuera del sitio para tratamiento adicionales y eliminación.

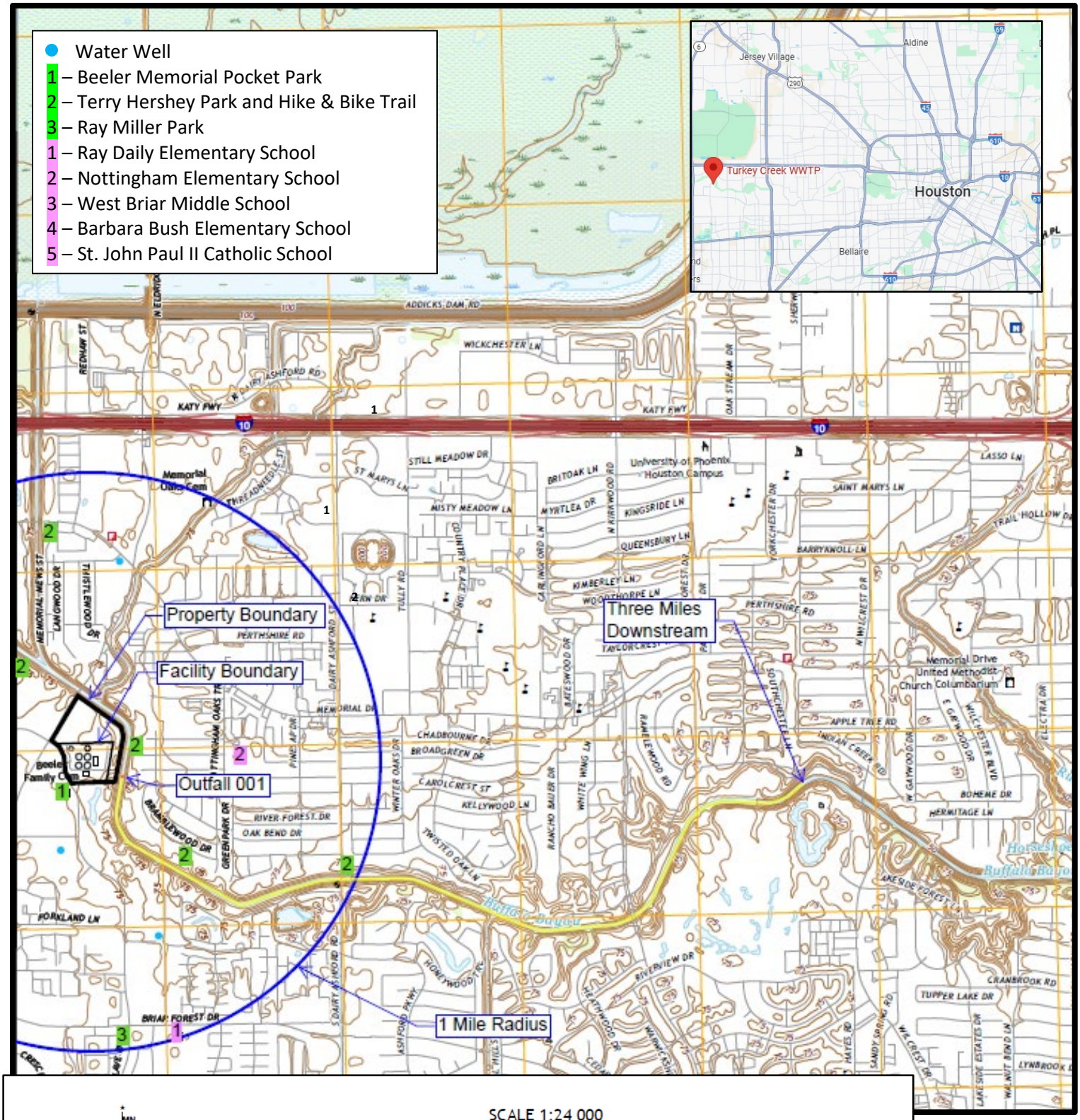
Attachment 4

USGS Map

Administrative Report 1.0, Section 13

USGS Map

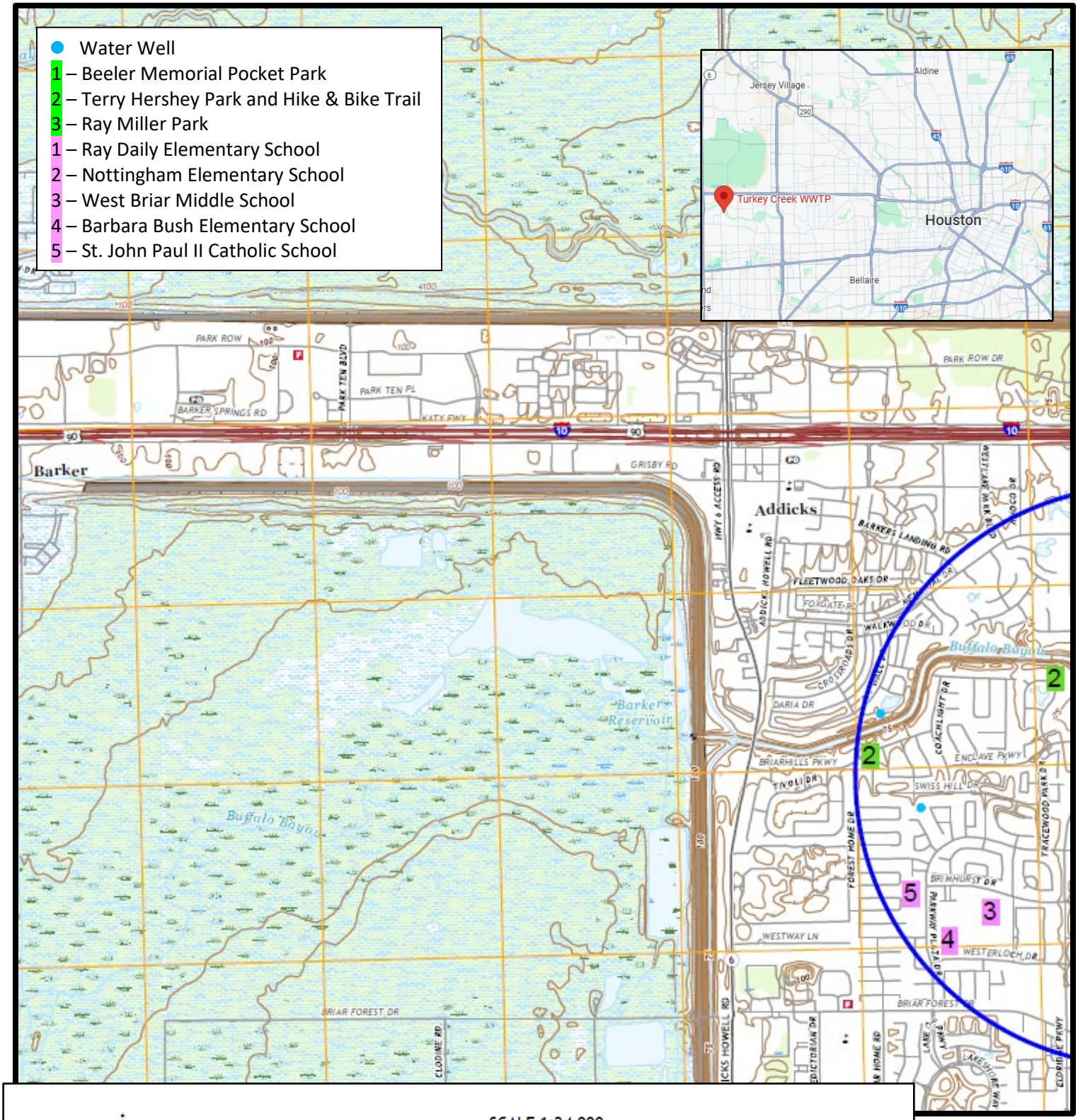
Reproduced Portion of 7.5-minute USGS Quadrangle Map –Hedwig Village TX
Turkey Creek WWTP

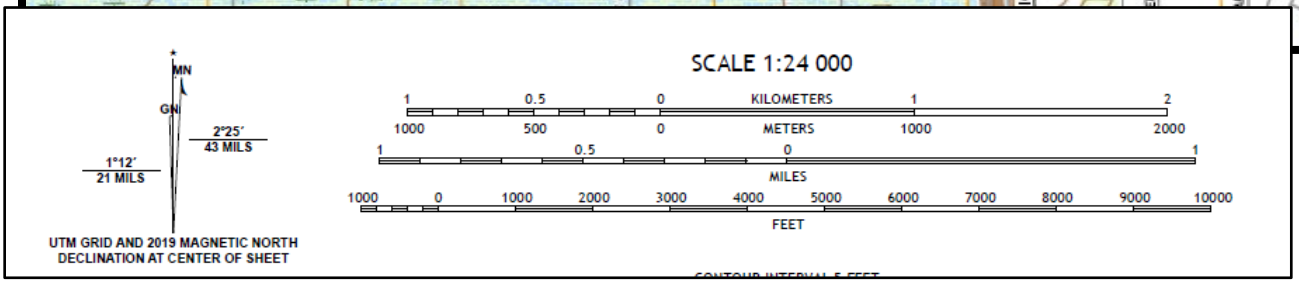


05/16/2025

USGS Map

Reproduced Portion of 7.5-minute USGS Quadrangle Map – Addicks, TX
Turkey Creek WWTP





05/16/2025

Attachment 5

Supplemental Permit Information Form

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 Houston

   Permit No. WQ00 10495109 EPA ID No. TX 0035017

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

   1147 Enclave Parkway, Houston, Harris County, Texas 77077

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: Walid Samarneh

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

Title: Managing Engineer

Mailing Address: 10500 Bellaire Blvd

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: Click here to enter text. Fax No.: 832-395-5838

E-mail Address: walid.samarneh@houstontx.gov

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

N/A

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

The facility discharges directly to Buffalo Bayou Above Tidal in TCEQ Segment No. 1014 of the San Jacinto 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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing disturbances, vegetations, and land use are those typical of a Wastewater Treatment plant.

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

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

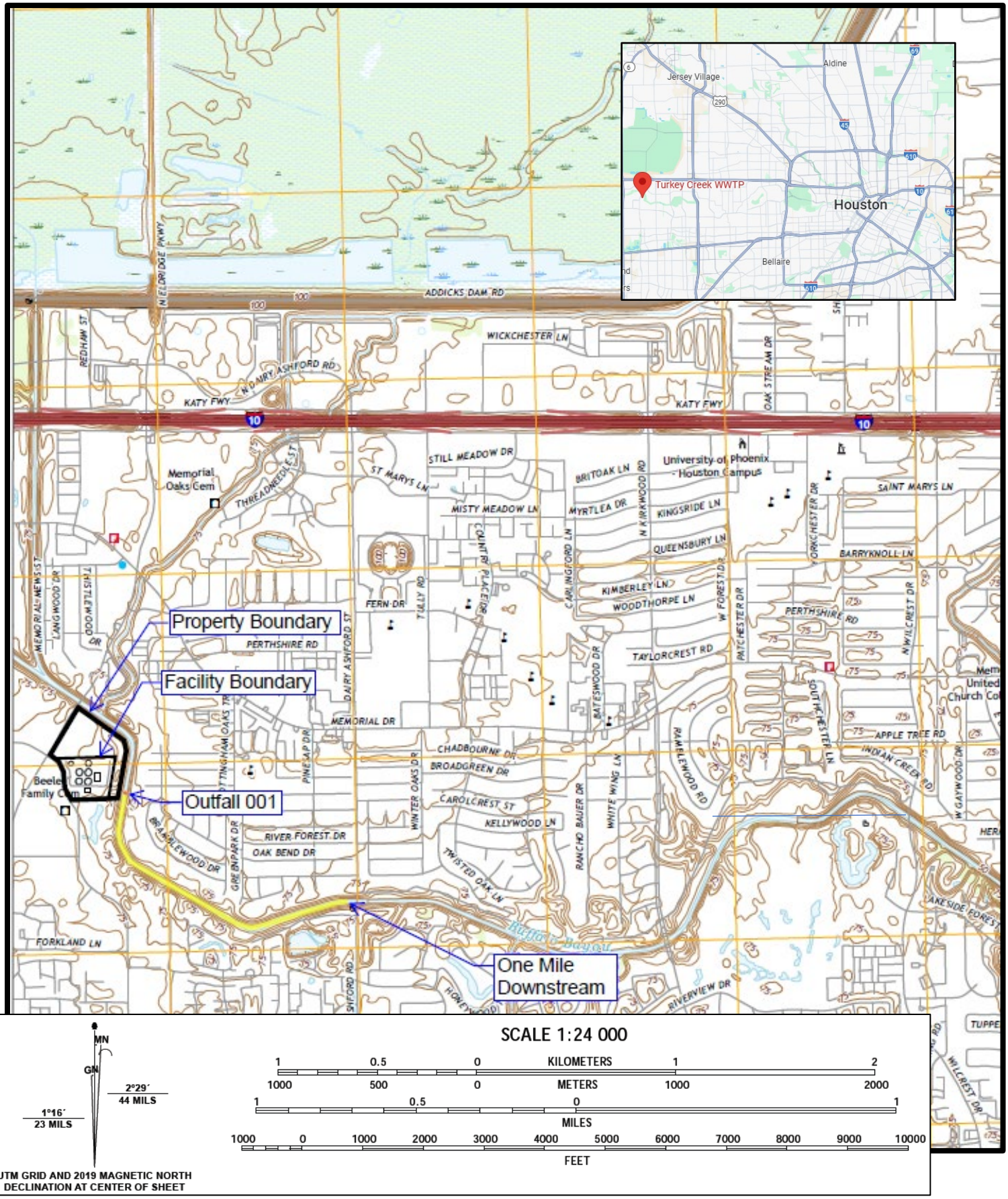
N/A

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

N/A

Vicinity Map and Edited USGS Map

Reproduced Portion of 7.5-minute USGS Quadrangle Map – Hedwig Village, TX



5/16/2025

Attachment 6

Treatment Units

Technical Report 1.0, Section 2.B.

CITY OF HOUSTON
TURKEY CREEK WWTF
TPDES PERMIT RENEWAL

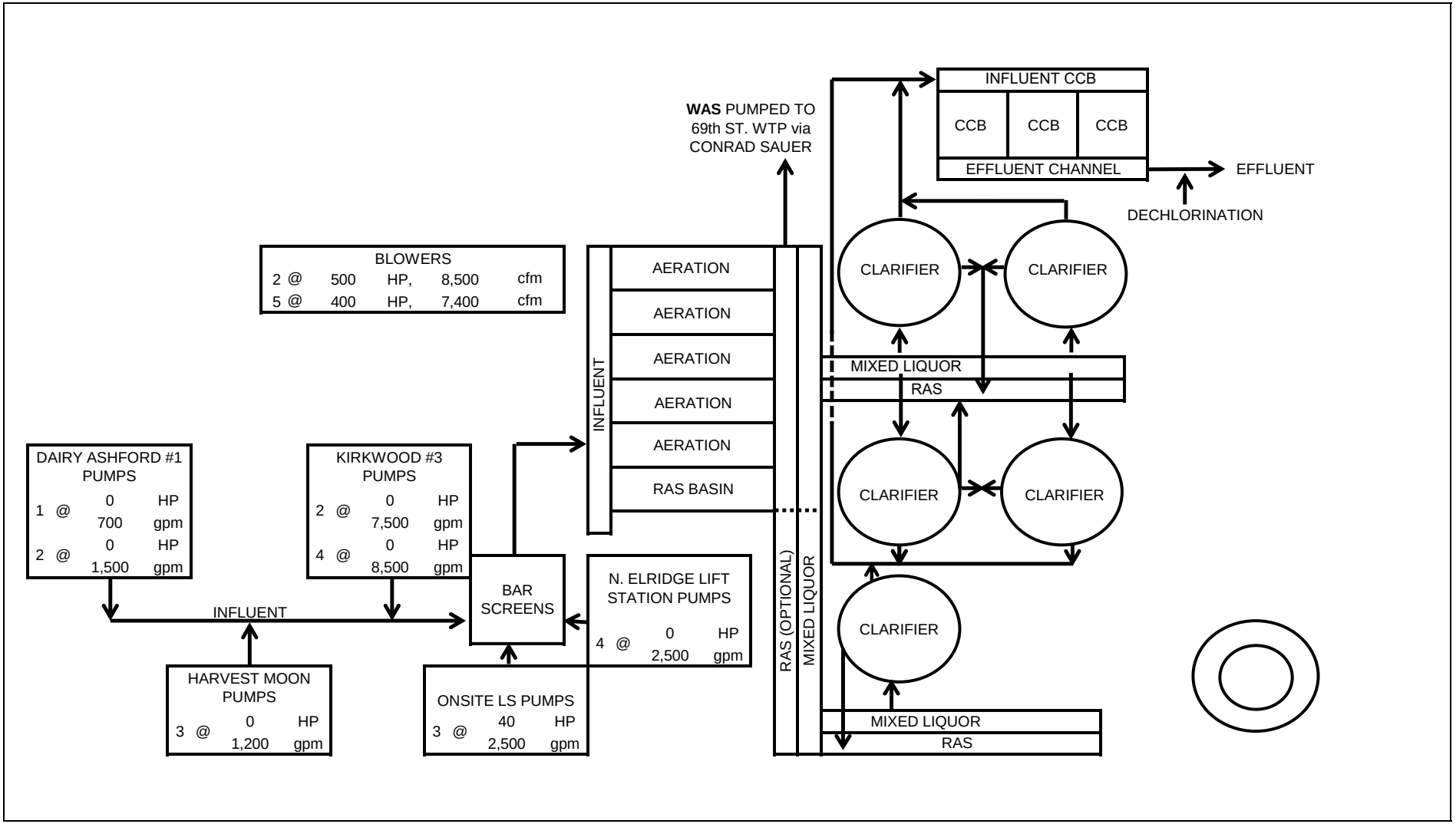
TREATMENT UNITS

Treatment Unit Type	Number of Units	Dimensions (L x W x SWD)
Influent Channel	1	185.8' x 15' x 18'
Aeration Basin	5	125' x 30' x 18'
RAS Basin	1	125' x 30' x 18'
Mixed Channel	1	374.33' x 15' x 18'
	1	260.17' x 5' x 18'
	1	133.17' x 5' x 18'
Clarifier	5	120' diameter x 12.16'
RAS Channel	1	374.33' x 15' x 18'
	1	260.17' x 5' x 18'
	1	133.17' x 5' x 18'
Influent Chlorine Contact Basin	1	80' x 30' x 14.75'
Chlorine Contact Basin	3	80' x 30' x 14.75'

Attachment 7

Process Flow Diagram

Technical Report 1.0, Section 2.C.



TURKEY CREEK WWTP - PROCESS FLOW DIAGRAM

PLANT LOCATION

1147 ENCLAVE PKWY
HOUSTON, TX 77077

QUADRANT	SOUTHWEST
KEY MAP NUMBER	570K

OVERALL PLANT CAPACITY (MGD)

	FIRM	TOTAL
LIFT STATION	46.22	69.55
	AVG.	2 HR PEAK
PLANT	11.2	64.2
PERMITTED FLOW LIMITS	12	64.1

UNIT PROCESS CAPACITY (MGD)

	DESIGN	2 HR PEAK
AERATION SYSTEM	11.2	NA
SECONDARY CLARIFIERS	33.9	67.8
DISINFECTION	NA	64.2

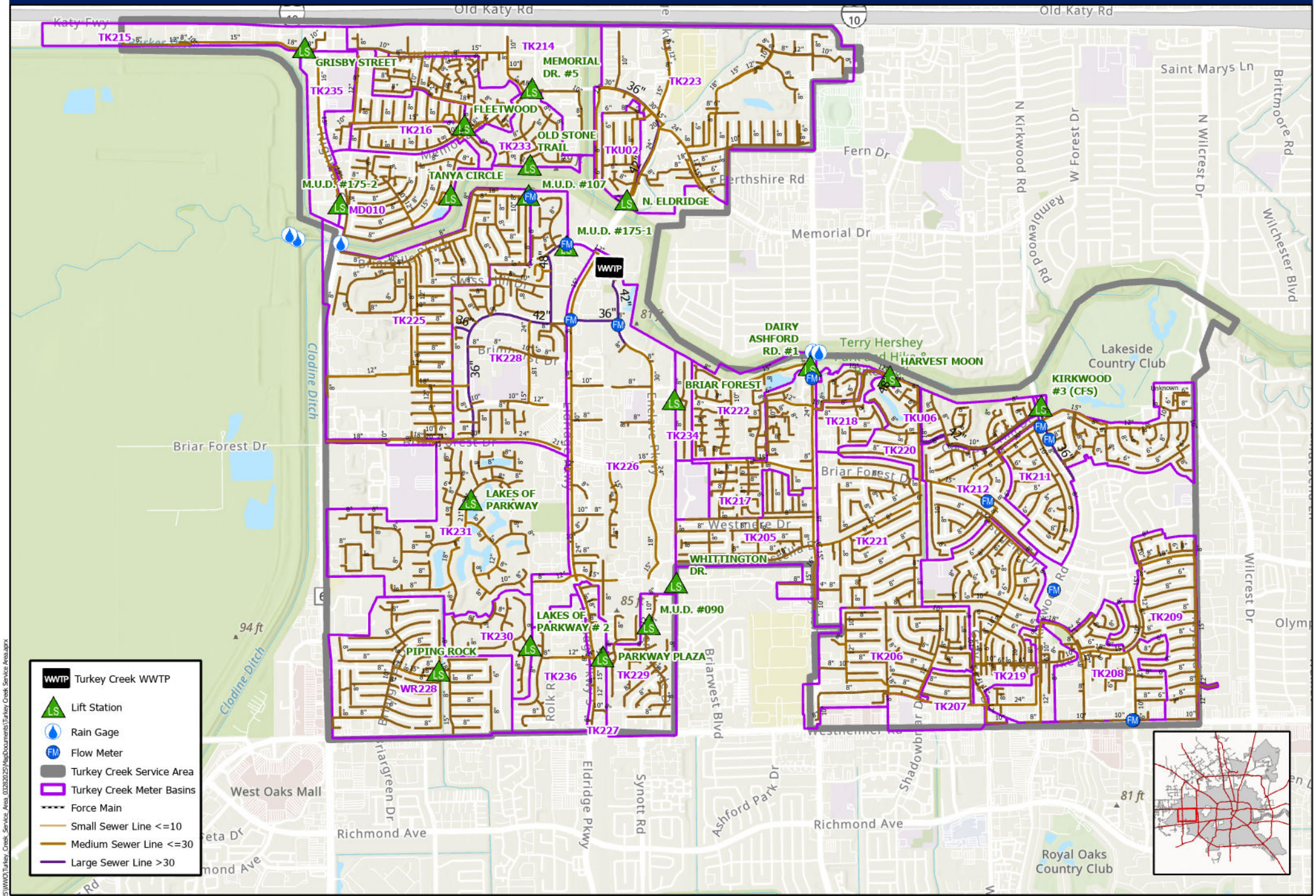
Reviewed on 05/14/2025

Attachment 8

Site Drawing

Technical Report 1.0, Section 3

Turkey Creek Service Area



HOUSTON PUBLIC WORKS

Geospatial or map data maintained by Houston Public Works is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and only represents the approximate location of property boundaries.

0 0.3 0.5 1 Miles

N

Path: P:\GIS\WI\Projects\2025\WWO\Turkey Creek Service Area_02022025\MapDocuments\Turkey Creek Service Area.aprx

10.02.2024

Attachment 9

Laboratory Test Reports and COCs

Technical Report 1.0, Section 7, Table 1.0(2)
Worksheet 4.0, Section 1
Worksheet 4.0, Section 2

Laboratory Analysis Report

Total Number of Pages: 24

Job ID : 25030719

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

Client Project Name :

Report To :

Client Name: Houston, City of
Attn: Neranga Gamage
Client Address: 10500 Bellaire Blvd.
City, State, Zip: Houston, Texas, 77072

P.O.#.:
Sample Collected By: Crescencio Fonseca
Date Collected: 03/06/25 - 03/07/25

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

Client Sample ID	Matrix	A&B Sample ID
5358272	Water	25030719.01
5358272	Water	25030719.02
5358282	Water	25030719.03
5358282	Water	25030719.04
5358292	Water	25030719.05
5358302	Water	25030719.06
5358311	Water	25030719.07
5358312	Water	25030719.08
5358312	Water	25030719.09

Released By: Amanda Shute
Title: Project Manager
Date: 3/21/2025

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 : 03/07/2025 15:40

25.1.22116

LABORATORY TEST RESULTS

Job ID : 25030719

Date 3/21/2025

Client Name: Houston, City of

Attn: Neranga Gamage

Project Name:

Client Sample ID: 5358311
Date Collected: 03/06/25
Time Collected: 11:07
Other Information:

Job Sample ID: 25030719.07
Sample Matrix Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 1664B										
	Oil & Grease	<1.97	mg/L	1.41	1.97	3.53		U	03/10/25 10:03	SG

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 25030719

Date 3/21/2025

Client Name: Houston, City of

Attn: Neranga Gamage

Project Name:

Client Sample ID: 5358312
Date Collected: 03/07/25
Time Collected: 08:00
Other Information:

Job Sample ID: 25030719.08
Sample Matrix Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
ASTM D7065-11										
	Bisphenol A[2]	<5.00	ug/L	1.00		5.00		U	03/14/25 03:42	JG
	Nonylphenol[1]	<5.00	ug/L	1.00	5.00	5.00		U	03/13/25 03:10	JG
	Terphenyl-d14(surr)	73.1	%	1.00		18-137			03/13/25 03:10	JG

ab-q212-0321

LABORATORY TEST RESULTS

Job ID : 25030719

Date 3/21/2025

Client Name: Houston, City of

Attn: Neranga Gamage

Project Name:

Client Sample ID: 5358312
Date Collected: 03/06/25
Time Collected: 22:06
Other Information:

Job Sample ID: 25030719.09
Sample Matrix Water
% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 420.4	Phenolics (Total Phenols)									
	Phenols	<0.0045	mg/L	1.00	0.0045	0.0100		U	03/12/25 16:21	SKC

ab-q212-0321

[1]-Parameter is not accredited.
[2]-Parameter not available for accreditation.

QUALITY CONTROL CERTIFICATE

Job ID : 25030719 **Date :** 3/21/2025

Analysis : **Method :** **EPA 1664B** **Reporting Units : mg/L**

QC Batch ID : Qb25031025 **Created Date :** 03/10/25 **Created By :** Sgarcia

Samples in This QC Batch : 25030719.07

Sample Preparation : PB25031011 **Prep Method :** EPA 1664B **Prep Date :** 03/10/25 09:35 **Prep By :** Sgarcia

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Method Blank	Oil & Grease		< MDL	mg/L	1	2.5	1.4		

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	36.1	90.3	40	35.2	88.0	2.5	11	78-114	

QC Type: MS and MSD
QC Sample ID: 25030688.01

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	44.7	109.3						78-114	

QUALITY CONTROL CERTIFICATE

Job ID : 25030719 **Date :** 3/21/2025

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

QC Batch ID : Qb25031084 **Created Date :** 03/10/25 **Created By :** JGonzalez

Samples in This QC Batch : 25030719.01,03,08

Extraction : PB25031012 **Prep Method :** ASTM D7065-11 **Prep Date :** 03/10/25 07:35 **Prep By :** MMuteen

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Method Blank	Bisphenol A	80-05-7	< MQL	ug/L	1.00	5			
Method Blank	Nonylphenol	84852-15-3	< MDL	ug/L	1.00	5	5.0		
Method Blank	Terphenyl-d14(surr)		85.4	%	1.00				

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Bisphenol A	50	36.3	72.6	50	35.4	70.8	2.5	20	60-140	
Nonylphenol	50	47.4	94.7	50	48.8	97.5	3	13	63.1-120	

QUALITY CONTROL CERTIFICATE

Job ID : 25030719 **Date :** 3/21/2025

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

QC Batch ID : Qb25031294 **Created Date :** 03/12/25 **Created By :** Srijan

Samples in This QC Batch : 25030719.02,04,05,06,09

QC Type: Blank Result

QCType	Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Method Blank	Phenols	108-95-2	< MDL	mg/L	1	0.01	0.00449		

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	0.104	104.0	0.1	0.101	101.0	2.9	20	90-110	

QC Type: MS1 and MSD1
QC Sample ID: 25030970.02

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	0.098	98.0	0.1	0.098	98.0	0.0	10	90-110	

QC Type: MS2 and MSD2
QC Sample ID: 25030719.06

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	0.0971	97.1	0.1	0.104	104	6.8	10	90-110	

CF

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Turkey Creek Regional**
N. Eldridge/enclave Pkwy, Houston, TX

Location: **EFFLUENT**

Sample No. **5358311** Permit No. **5031** Outfall: **2** Scheduled Date: 3/7/2025

Sample Type: Grab Sample Matrix: Liquid

SAMPLE COLLECTED ✓ **Yes** ____ **No** If No: ____ No Discharge ____ Quantity Not Sufficient ____ Company Closed ____ Equipment Failure: ____

COMPOSITE TIME/DATE:
Begin: ___:___
End: ___:___
Begin Date: ___/___/___
End Date: ___/___/___

SAMPLE DETAILS: Temp: ___
Split Sample: ___ Yes ✓ No
\# of Bottles: (1) 2 3 4 5 ___
Sample Volume: 1000 ml
Sample Interval: 0 min.

GRAB TIME/DATE:
Time: 11:07
Date: 03/06/25
TRC ______, Lot #84032C
Temperature ______ °C, S/N ______

FIELD TESTS:
pH: ___.___
☐ Paper, Lot # ______
☐ Meter, S/N ______

Autosampler Secured/Locked? ___ **Yes** ___ **No** ✓ **NA** **Sampler (Print):** [illegible] + Aaron Hemmerich

Comments:

*07A Bottle #	Tests/Method — Analysis Requested	Sample Size/Container	Preservation	# of containers
✓ 5358311-005	Oil and Grease (Total) / HEM (EPA 1664)	1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	1
LIMS Comments				

CHAIN OF CUSTODY

Lab Delivered To: ____ COH Wastewater Lab X City Contract Lab: A&B

Seals Intact: ___ Yes ✓ No 568 IR Thermometer S/N # 27910254 ___ S/N # 29650075 ___ Temp 1.7 °C Initial CM 1K7

pH Strip Manufacturer: ______ Lot #: ______ Initial: ______

Relinquished By: [signature] Date: 3/7/25 Time: 14:25

Received By: [signature] Date: 3/7/25 Time: 14:25

Relinquished By: [signature] Date: 3/7/25 Time: 15:40

Received By: [signature] Date: 3/7/25 Time: 15:40

Relinquished By: ______ Received By: ______ Date: ___/___/___ Time: ___:___

* Deliverd to Lab if Box is Checked

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Turkey Creek Regional**
N. Eldridge/enclave Pkwy, Houston, TX

Location: **EFFLUENT**

Sample No. **5358312** Permit No. **5031** Outfall: **2** Scheduled Date: 3/7/2025

Sample Type: COMP Sample Matrix: Liquid

SAMPLE COLLECTED ✓ **Yes** ____ **No** If No: ____ No Discharge ____ Quantity Not Sufficient ____ Company Closed ____ Equipment Failure: ____

COMPOSITE TIME/DATE:
Begin: 08:00
End: 08:00
Begin Date: 3/6/25
End Date: 3/7/25

SAMPLE DETAILS: Temp: ____
Split Sample: ____ Yes ____ No
# of Bottles: 1 2 3 (4) 5 ___
Sample Volume: 8110 ml
Sample Interval: Flow min.

GRAB TIME/DATE:
Time: ____:____
Date: ___/___/___
TRC ____, Lot #84032C
Temperature ____ °C, S/N ____

FIELD TESTS:
pH: ____.____
☐ Paper, Lot #____
☐ Meter, S/N ____

Autosampler Secured/Locked? ✓ **Yes** ____ **No** ____ **NA** **Sampler (Print):** Aaron Hernandez

Comments:

*	Bottle #	Analysis Requested: Tests/Method	Sample Size/Container	Preservation	# of containers
	5358312-001	Bisphenol A (ASTM D7065-11 or 625); Nonylphenol (1625 or ASTM D7065)	1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	2
	5358312-004	Hexachlorophene (EPA 604.1)	1 L Amber Glass, PTFE lined cap	Cool <6°C	2
	LIMS Comments				

CHAIN OF CUSTODY

Lab Delivered To: ____ COH Wastewater Lab X City Contract Lab: A&B

Seals Intact: ____ **Yes** ✓ **No** 568 IR Thermometer S/N # 27910254 ___ S/N # 29650075 ___ Temp 1.7 °C Initial CH IR7

pH Strip Manufacturer: ____ Lot #: ____ Initial: ____

Relinquished By: [signature] Date: 3/7/25 Time: 14.25

Received By: [signature] Date: 3/7/25 Time: 14.25

Relinquished By: [signature] Date: 3/7/25 Time: 15.40

Received By: [signature] Date: 3/7/25 Time: 15.40

Relinquished By: ____ Received By: ____ Date: ___/___/___ Time: ____.____

* Deliverd to Lab if Box is Checked

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Turkey Creek Regional**
N. Eldridge/enclave Pkwy, Houston, TX

Location: **EFFLUENT**

Sample No. **5358312** Permit No. **5031** Outfall: **2** Scheduled Date: 3/7/2025

Sample Type: CMAN Sample Matrix: Liquid

SAMPLE COLLECTED ✓ **Yes** ____ **No** If No: ____ No Discharge ____ Quantity Not Sufficient ____ Company Closed ____ Equipment Failure: ________

COMPOSITE TIME/DATE:
Begin: 06:12
End: 22:06
Begin Date: 3/6/25
End Date: 3/6/25

SAMPLE DETAILS: Temp: ____
Split Sample: ____ Yes ✓ No
# of Bottles: (1) 2 3 4 5 ___
Sample Volume: 250 ml
Sample Interval: 300 min.

GRAB TIME/DATE:
Time: ____:____
Date: ___/___/___
TRC ______, Lot #84032C
Temperature ______ °C, S/N ________

FIELD TESTS:
pH: ____.____
☐ Paper, Lot # ________
☐ Meter, S/N ________

Autosampler Secured/Locked? ____ **Yes** ____ **No** ____ **NA** **Sampler (Print):** Jeffrey Farnell + Aaron Hernan

Comments: Collected as 4 parts 6:12, 11:09, 16:30, 22:06

*	Bottle #	Tests/Method — Analysis Requested	Sample Size/Container	Preservation	# of containers
ok	5358312-006	Phenol, Total (EPA 420.1)	1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	1
	LIMS Comments				

CHAIN OF CUSTODY

Lab Delivered To: ____ COH Wastewater Lab __X__ City Contract Lab: A&B

Seals Intact: ____ **Yes** ✓ **No** 568 IR Thermometer S/N # 27910254 ___ S/N # 29650075 ___ Temp 1.7 °C Initial CM 1.27

pH Strip Manufacturer: ____________ Lot #: ________ Initial: ________

Relinquished By: [signature] Date: 3/7/25 Time: 14:25

Received By: [signature] Date: 3/7/25 Time: 14:25

Relinquished By: [signature] Date: 3/7/25 Time: 15:40

Received By: [signature] Date: 3/7/25 Time: 15:40

Relinquished By: ________ Received By: ________ Date: __/__/__ Time: ____.____

* Deliverd to Lab if Box is Checked

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Neranga Gamage
City of Houston
10500 Bellaire Blvd
Houston, Texas 77072

Generated 3/11/2025 2:50:28 PM

JOB DESCRIPTION

5358312 Turkey Creek Regional Effluent
5031_2

JOB NUMBER

860-95508-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

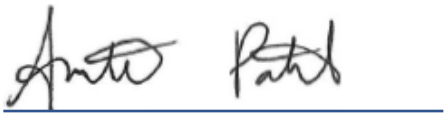
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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3/11/2025 2:50:28 PM

Authorized for release by
Anita Patel, Project Manager
Anita.Patel@et.eurofinsus.com
(832)776-2275

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 860-95508-1 — Eurofins Houston

Job Narrative
860-95508-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/7/2025 4:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: City of Houston
Job ID: 860-95508-1
Project/Site: 5358312 Turkey Creek Regional Effluent
SDG: 5031_2

Client Sample ID: 5358312-002
Lab Sample ID: 860-95508-1

No Detections.

Client Sample ID: 5358312-003
Lab Sample ID: 860-95508-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: City of Houston
Job ID: 860-95508-1
Project/Site: 5358312 Turkey Creek Regional Effluent
SDG: 5031_2

Client Sample ID: 5358312-002

Lab Sample ID: 860-95508-1

Date Collected: 03/07/25 08:00
Matrix: Water
Date Received: 03/07/25 16:04

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85		5.00	1.85	ug/L		03/10/25 05:18	03/10/25 20:54	1
Diuron	<0.0514		0.0900	0.0514	ug/L		03/10/25 05:18	03/10/25 20:54	1

Client Sample ID: 5358312-003

Lab Sample ID: 860-95508-2

Date Collected: 03/07/25 08:00
Matrix: Water
Date Received: 03/07/25 16:04

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000542		0.000201	0.0000542	mg/L		03/09/25 08:06	03/11/25 01:06	1
2,4,5-TP	<0.0000425		0.000201	0.0000425	mg/L		03/09/25 08:06	03/11/25 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*138*		*45 - 150*	*03/09/25 08:06*	*03/11/25 01:06*	*1*

Surrogate Summary

Client: City of Houston
Project/Site: 5358312 Turkey Creek Regional Effluent

Job ID: 860-95508-1
SDG: 5031_2

Method: 615 - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCPAA1							
Lab Sample ID	Client Sample ID	(45-150)							
860-95508-2	5358312-003	138							
LCS 860-221237/2-A	Lab Control Sample	99							
LCSD 860-221237/3-A	Lab Control Sample Dup	98							
MB 860-221237/1-A	Method Blank	108							

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-221237/1-A
Matrix: Water
Analysis Batch: 221362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000539		0.000200	0.0000539	mg/L		03/09/25 08:06	03/10/25 22:02	1
2,4,5-TP	<0.0000422		0.000200	0.0000422	mg/L		03/09/25 08:06	03/10/25 22:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*108*		*45 - 150*	*03/09/25 08:06*	*03/10/25 22:02*	*1*

Lab Sample ID: LCS 860-221237/2-A
Matrix: Water
Analysis Batch: 221362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221237

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			0.00200	0.001962		mg/L		98	55 - 145		
2,4,5-TP			0.00200	0.001971		mg/L		99	55 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*99*		*45 - 150*

Lab Sample ID: LCSD 860-221237/3-A
Matrix: Water
Analysis Batch: 221362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221237

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			0.00200	0.001954		mg/L		98	55 - 145	0	25
2,4,5-TP			0.00200	0.001951		mg/L		98	55 - 140	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*98*		*45 - 150*

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-221252/1-A
Matrix: Water
Analysis Batch: 221478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85		5.00	1.85	ug/L		03/10/25 05:18	03/10/25 18:09	1
Diuron	<0.0514		0.0900	0.0514	ug/L		03/10/25 05:18	03/10/25 18:09	1

Lab Sample ID: LCS 860-221252/2-A
Matrix: Water
Analysis Batch: 221478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221252

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbaryl			100	90.88		ug/L		91	70 - 130		
Diuron			2.00	1.803		ug/L		90	70 - 130		

Method: 632 - Carbamate and Urea Pesticides (HPLC) (Continued)

Lab Sample ID: LCSD 860-221252/3-A
Matrix: Water
Analysis Batch: 221478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl			100	92.67		ug/L		93	70 - 130	2	20
Diuron			2.00	1.868		ug/L		93	70 - 130	4	20

QC Association Summary

Client: City of Houston
Project/Site: 5358312 Turkey Creek Regional Effluent

Job ID: 860-95508-1
SDG: 5031_2

GC Semi VOA

Prep Batch: 221237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-95508-2	5358312-003	Total/NA	Water	3511	
MB 860-221237/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-221237/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-221237/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 221362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-95508-2	5358312-003	Total/NA	Water	615	221237
MB 860-221237/1-A	Method Blank	Total/NA	Water	615	221237
LCS 860-221237/2-A	Lab Control Sample	Total/NA	Water	615	221237
LCSD 860-221237/3-A	Lab Control Sample Dup	Total/NA	Water	615	221237

HPLC/IC

Prep Batch: 221252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-95508-1	5358312-002	Total/NA	Water	CWA_Prep	
MB 860-221252/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 860-221252/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-221252/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 221478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-95508-1	5358312-002	Total/NA	Water	632	221252
MB 860-221252/1-A	Method Blank	Total/NA	Water	632	221252
LCS 860-221252/2-A	Lab Control Sample	Total/NA	Water	632	221252
LCSD 860-221252/3-A	Lab Control Sample Dup	Total/NA	Water	632	221252

Lab Chronicle

Client: City of Houston
Job ID: 860-95508-1
Project/Site: 5358312 Turkey Creek Regional Effluent
SDG: 5031_2

Client Sample ID: 5358312-002
Lab Sample ID: 860-95508-1

Date Collected: 03/07/25 08:00
Matrix: Water
Date Received: 03/07/25 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	221252	03/10/25 05:18	DR	EET HOU
Total/NA	Analysis	632		1			221478	03/10/25 20:54	YG	EET HOU

Client Sample ID: 5358312-003
Lab Sample ID: 860-95508-2

Date Collected: 03/07/25 08:00
Matrix: Water
Date Received: 03/07/25 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			49.7 mL	4 mL	221237	03/09/25 08:06	BH	EET HOU
Total/NA	Analysis	615		1			221362	03/11/25 01:06	WP	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: City of Houston
Job ID: 860-95508-1
Project/Site: 5358312 Turkey Creek Regional Effluent
SDG: 5031_2

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	07-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
632	CWA_Prep	Water	Diuron

Method Summary

Client: City of Houston
Job ID: 860-95508-1
Project/Site: 5358312 Turkey Creek Regional Effluent
SDG: 5031_2

Method	Method Description	Protocol	Laboratory
615	Herbicides (GC)	EPA-01	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: City of Houston
Job ID: 860-95508-1
Project/Site: 5358312 Turkey Creek Regional Effluent
SDG: 5031_2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-95508-1	5358312-002	Water	03/07/25 08:00	03/07/25 16:04
860-95508-2	5358312-003	Water	03/07/25 08:00	03/07/25 16:04

CF

Industrial Wastewater Service

Analysis Request and Chain of Custody

95508

Company Name: **Turkey Creek Regional**
N Eldridge/enclave Pkwy Houston, TX

Location **EFFLUENT**

Sample No. **5358312** Permit No. **5031** Outfall **2** Scheduled Date 3/7/202

Sample Type COMP ✓ Sample Matrix: Liquid

SAMPLE COLLECTED ✓ Yes ____ No If No ____ No Discharge ____ Quantity Not Sufficient ____ Company Closed ____ Equipment Failure

COMPOSITE TIME/DATE.	**SAMPLE DETAILS** Temp ____	**GRAB TIME/DATE.**	**FIELD TESTS**
Begin. 08.00	Split Sample ____ Yes ____ No	Time ____.____	pH ____.____
End 08.00	# of Bottles 1 2 3 (4) 5 ____	Date ____/____/____	☐ Paper, Lot #____
Begin Date 03/06/25	Sample Volume 800 ml	TRC ____, Lot #84032C	☐ Meter, S/N ____
End Date 03/07/25	Sample Interval FLOW min	Temperature ____ °C, S/N ____	

Autosampler Secured/Locked? ✓ Yes ____ No ____ NA **Sampler (Print)** Aaron Hernandez

Comments ____

*	Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of container
	5358312-002	Carbaryl (EPA 632); Diuron (EPA 632)		1 L Amber Glass, PTFE lined cap	Cool <6°C	2
	5358312-003	Herbicides (EPA 615 or SM 6640B)		1 L Amber Glass, PTFE lined cap	Cool <6°C	2
	LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ____ COH Wastewater Lab X City Contract Lab Eurofins Xenco

Seals Intact: ____ Yes ____ No 568 IR Thermometer S/N # 27910254 ___ S/N # 29650075 ___ Temp ____ °C Initial ___

pH Strip Manufacturer: ____ Lot #: ____ Initial ____

Relinquished By: [signature] Date: 3/7/25 Time: 15.10

Received By: [signature] Date: 03/07/25 Time: 15.10

Relinquished By: [signature] Date: 3/07/25 Time: 15.25

Received By: Jerry Whitmire Date: 3/07/25 Time: 15.25

Relinquished By: Jerry Whitmire Received By: [signature] Date 3/7/25 Time 16.04

* Deliverd to Lab if Box is Checked

860-95508 Chain of Custody

Temp. C/F -0.1 3.7 IR ID:HOU-368
Corrected Temp: 3.6

Login Sample Receipt Checklist

Client: City of Houston

Job Number: 860-95508-1
SDG Number: 5031_2

Login Number: 95508
List Number: 1
Creator: Torres, Sandra

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

April 01, 2025

Report # 104844
Revision # 0

ANALYTICAL REPORT

City of Houston Wastewater Operations Laboratory
10500 Bellaire Blvd
Houston, TX 77072

Regulatory Compliance

Turkey Creek
1147 Enclave Parkway

Houston, TX 77077

Project Site: Turkey Creek Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 3/7/2025.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager

Table of Contents

Turkey Creek	Project:	TC Full Scan + Permit	
1147 Enclave Parkway	Project Number:	10495-109	
Houston, TX 77077	Project Manager:	Regulatory Compliance	**Reported:** 04/11/2025 07:58

Samples in this Report

Lab ID	Sample	Alias	Matrix	Date Sampled	Date Received
25C0254-01	SP 2_CompMan	Turkey Creek Effluent	Water	03/06/2025 22:06	03/07/2025 11:50
25C0254-02	SP 2_Comp	Turkey Creek Effluent	Water	03/07/2025 08:00	03/07/2025 11:50
25C0254-02	SP 2_Comp	Turkey Creek Effluent	Water	03/07/2025 08:00	03/07/2025 11:50
25C0254-03	SP 2_Grab	Turkey Creek Effluent	Water	03/07/2025 08:55	03/07/2025 11:50
25C0254-04	Field Blank	Field Blank TC	Water	03/06/2025 11:09	03/07/2025 11:50

HOUSTON PUBLIC WORKS

Turkey Creek	Project: TC Full Scan + Permit	
1147 Enclave Parkway	Project Number: 10495-109	
Houston, TX 77077	Project Manager: Regulatory Compliance	**Reported:** 04/11/2025 07:58

Sample Results

Sample: SP 2_CompMan Turkey Creek Effluent

25C0254-01 (Water)

Date Collected: 3/6/2025 22:06

Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals									
Mercury	**5.23**		0.0928	0.500	ng/L	03/10/2025 10:57	03/11/2025 11:50	KEN	EPA 1631E
Volatile Organics									
1,1,1-Trichloroethane	ND		0.805	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,1,2,2-Tetrachloroethane	ND		0.857	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,1,2-Trichloroethane	ND		0.748	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,1-Dichloroethane	ND		0.299	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,1-Dichloroethene	ND		0.340	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,2-Dibromoethane	ND		0.530	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,2-Dichlorobenzene	ND		0.999	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,2-Dichloroethane	ND		0.393	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,2-Dichloropropane	ND		0.545	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,3-Dichlorobenzene	ND		1.00	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,4-Dichlorobenzene	ND		1.14	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
2-Butanone	ND		4.25	10.0	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
2-Chloroethyl vinyl ether	ND		1.63	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Acrolein	ND		3.45	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Acrylonitrile	ND		1.71	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Benzene	ND		0.577	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Bromodichloromethane	**14.7**		0.745	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Bromoform	ND		1.42	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Bromomethane	ND		3.05	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Carbon Disulfide	ND		0.773	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Carbon Tetrachloride	ND		1.49	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Chlorobenzene	ND		0.640	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Chloroethane	ND		0.692	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Chloroform	**41.9**		0.557	4.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
chloromethane	ND		0.497	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
cis-1,2-Dichloroethene	ND		0.341	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
cis-1,3-Dichloropropene	ND		0.953	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Dibromochloromethane	**3.76**	J	1.34	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Epichlorohydrin	ND		8.07	25.0	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Ethylbenzene	ND		0.582	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
m+p-Xylene	ND		1.22	10.0	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Methylene Chloride	ND		0.632	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Methyl-tert-butyl ether (MTBE)	ND		0.639	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
o-Xylene	ND		0.503	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Styrene	ND		0.716	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Tetrachloroethene	ND		0.748	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Toluene	**1.76**	J, B	0.468	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1

Sample Results

(Continued)

Sample: SP 2_CompMan (Continued)Turkey Creek Effluen

25C0254-01 (Water)

Date Collected: 3/6/2025 22:06
Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Volatile Organics (Continued)									
trans-1,2-Dichloroethene	ND		0.389	4.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
trans-1,3-Dichloropropene	ND		1.37	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Trichloroethene	ND		0.815	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Vinyl acetate	ND		2.26	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Vinyl chloride	ND		1.70	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Xylenes, Total	ND		1.22	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Total Trihalomethanes	ND		1.34	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
1,3-Dichloropropene, Total	ND		1.37	5.00	ug/L	03/07/2025 16:16	03/07/2025 16:16	JXB	EPA 624.1
Wet Chemistry									
Cyanide, Amenable	**5.08**		0.946	2.00	ug/L	03/10/2025 08:24	03/18/2025 14:36	SBL	OIA 1677
Cyanide, Total	**5.99**		3.14	5.00	ug/L	03/10/2025 08:24	03/18/2025 14:36	SBL	ASTM D7511

Sample Results

(Continued)

Sample: SP 2_Comp Turkey Creek Effluent

25C0254-02 (Water)

Date Collected: 3/7/2025 8:00
Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals									
Silver	ND		0.0536	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Aluminum	**20.6**	B 10x	0.384	2.00	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Arsenic	**1.81**		0.301	0.500	ug/L	03/18/2025 11:12	03/20/2025 13:32	VP/HZ	EPA 200.8
Barium	**145**	B 10x	0.0194	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Beryllium	ND		0.0382	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Cadmium	ND		0.0324	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Chromium	**0.803**	J	0.282	2.00	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Copper	**5.97**	B 10x	0.0810	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Nickel	**1.66**		0.151	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Lead	**0.291**	J	0.0665	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Antimony	**0.936**	J	0.483	1.00	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Selenium	**0.862**	J	0.264	2.50	ug/L	03/18/2025 11:12	03/20/2025 13:32	VP/HZ	EPA 200.8
Thallium	**0.128**	J	0.110	0.500	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Vanadium	**1.00**	J	0.172	2.00	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Zinc	**34.4**	B 10x	0.505	2.00	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	EPA 200.8
Chromium Trivalent	**0.803**	J	0.282	2.00	ug/L	03/18/2025 11:12	03/19/2025 12:28	VP/HZ	[CALC]
Semivolatile Organics									
Chlorpyrifos (2)	ND		0.00905	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
Demeton-o (2)	ND		0.0191	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
Demeton-s (2)	ND		0.0161	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
Diazinon (2)	**0.362**		0.0131	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
ethyl-Parathion (2)	ND		0.0121	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
Malathion (2)	ND		0.0121	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
methyl Azinphos (Guthion) (2)	ND		0.0151	0.251	ug/L	03/12/2025 08:55	03/14/2025 16:53	RAD	EPA 1657
4,4'-DDD	ND		0.00386	0.0253	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
4,4'-DDE	ND		0.00155	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
4,4'-DDT	ND		0.00514	0.0253	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Aldrin	ND		0.00155	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Alpha-BHC	ND		0.00120	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Beta-BHC	ND		0.00240	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Chlordane	ND		0.0434	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Delta-BHC	ND		0.00170	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Dicofol	ND		0.0118	0.0505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Dieldrin	ND		0.00183	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Endosulfan I	ND		0.00120	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Endosulfan II	ND		0.00339	0.0253	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Endosulfan Sulfate	ND		0.00427	0.0253	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Endrin	ND		0.0132	0.0253	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Endrin-Aldehyde	ND		0.00219	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3

Sample Results

(Continued)

Sample: SP 2_Comp (Continued)Turkey Creek Effluent

25C0254-02 (Water)

Date Collected: 3/7/2025 8:00
Date Received: 3/7/2025 11:50

Semivolatile Organics (Continued)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Gamma-BHC	ND		0.00120	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Heptachlor	ND		0.00219	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Heptachlor epoxide	ND		0.00155	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Methoxychlor	ND		0.00249	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Mirex	ND		0.00155	0.00505	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1016	ND		0.0770	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1221	ND		0.0120	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1232	ND		0.121	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1242	ND		0.117	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1248	ND		0.0943	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1254	ND		0.0739	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
PCB-1260	ND		0.164	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Toxaphene	ND		0.102	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
Polychlorinated biphenyls, Total	ND		0.0739	0.202	ug/L	03/11/2025 08:18	03/20/2025 10:58	SRB	EPA 608.3
1,2,4,5-Tetrachlorobenzene	ND		1.04	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
1,2,4-Trichlorobenzene	ND		0.849	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,4,5-Trichlorophenol	ND		1.57	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,4,6-Trichlorophenol	ND		1.07	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,4-Dichlorophenol	ND		0.955	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,4-Dimethylphenol	ND		0.529	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,4-Dinitrophenol	ND		4.75	20.1	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,4-Dinitrotoluene	ND		0.821	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2,6-Dinitrotoluene	ND		0.906	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2-Chloronaphthalene	ND		0.945	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2-Chlorophenol	ND		0.753	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2-Methylphenol	ND		5.17	10.1	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
2-Nitrophenol	ND		0.582	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
3,3'-Dichlorobenzidine	ND		6.06	20.1	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
4,6-Dinitro-2-methylphenol	ND		4.91	20.1	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
4-Bromophenyl phenyl ether	ND		0.915	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
4-Chloro-3-methylphenol	ND		0.400	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
4-Chlorophenyl phenyl Ether	ND		1.05	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
4-Methylphenol	ND		0.527	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
4-Nitrophenol	ND		2.37	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Acenaphthene	ND		0.708	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Acenaphthylene	ND		0.746	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Aniline	ND		1.26	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Anthracene	ND		1.01	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Azobenzene	ND		0.793	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Benzidine	ND		20.3	101	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1

Sample Results

(Continued)

Sample: SP 2_Comp (Continued)Turkey Creek Effluent

25C0254-02 (Water)

Date Collected: 3/7/2025 8:00
Date Received: 3/7/2025 11:50

Semivolatile Organics (Continued)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Benzo(a)pyrene	ND		1.97	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Benzo(b)fluoranthene	ND		1.76	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Benzo(k)Fluoranthene	ND		1.97	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Benzo(g,h,i)perylene	ND		1.69	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Benzo[a]anthracene	ND		1.43	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Bis(2-chloroethoxy) methane	ND		0.384	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Bis(2-chloroethyl) ether	ND		1.34	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Bis(2-chloroisopropyl) ether	ND		0.435	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Bis(2-ethylhexyl) phthalate	ND		1.32	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Butyl benzyl phthalate	ND		0.892	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Carbazole	ND		0.923	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Chrysene	ND		1.15	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Dibenzo(a,h)anthracene	ND		1.90	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Diethyl phthalate	ND		0.670	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Dimethyl phthalate	ND		0.643	2.51	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Di-n-butyl phthalate	ND		1.24	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Di-n-octyl phthalate	ND		1.10	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Fluoranthene	ND		1.04	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Fluorene	ND		0.799	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Hexachlorobenzene	ND		1.18	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Hexachlorobutadiene	ND		0.728	2.51	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Hexachlorocyclopentadiene	ND		0.798	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Hexachloroethane	ND		1.39	2.51	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Indeno(1,2,3-cd)pyrene	ND		2.08	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Isophorone	ND		0.296	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Naphthalene	ND		0.498	2.51	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
n-Decane	ND		0.611	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Nitrobenzene	ND		0.567	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
N-Nitrosodi-n-butylamine	ND		0.989	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
N-Nitrosodiethylamine	ND		0.513	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
N-Nitrosodimethylamine	ND		0.728	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
N-Nitrosodi-n-propylamine	ND		0.505	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
N-Nitrosodiphenylamine	ND		0.710	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
n-Octadecane	ND		1.70	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Pentachlorobenzene	ND		1.11	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Pentachlorophenol	ND		3.29	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Phenanthrene	ND		0.674	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Phenol	ND		1.12	2.51	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Pyrene	ND		0.968	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Pyridine	ND		0.881	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1

Sample Results

(Continued)

Sample: SP 2_Comp (Continued)Turkey Creek Effluent

25C0254-02 (Water)

Date Collected: 3/7/2025 8:00
Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Semivolatile Organics (Continued)									
3-Methylphenol	ND		0.316	5.03	ug/L	03/10/2025 07:53	03/19/2025 12:07	SRB	EPA 625.1
Wet Chemistry									
Total Alkalinity as CaCO3	**128**		20.0	20.0	mg/L	03/12/2025 11:00	03/12/2025 11:00	KEN	SM 2320 B
Total Dissolved Solids	**548**		5.0	5.0	mg/L	03/07/2025 13:05	03/10/2025 13:45	VP	SM 2540 C
Total Suspended Solids	**12.6**		4.0	4.0	mg/L	03/10/2025 12:14	03/11/2025 09:53	MDS	SM 2540 D
Fluoride	**0.949**		0.0930	0.100	mg/L	03/07/2025 13:34	03/07/2025 13:34	VP	EPA 300.0
Nitrate as N	**9.78**		0.0492	0.100	mg/L	03/07/2025 13:34	03/07/2025 13:34	VP	EPA 300.0
Ammonia as N	**1.66**		0.0204	0.0500	mg/L	03/10/2025 13:16	03/10/2025 13:16	JJK	EPA 350.1
Total Kjeldahl Nitrogen	**2.06**		0.278	0.500	mg/L	03/10/2025 09:00	03/11/2025 08:45	VP	SM 4500-NH3 D
Biochemical Oxygen Demand, Carbonaceous	**3.57**	BOD t	0.200	2.00	mg/L	03/07/2025 09:00	03/12/2025 10:59	FMD	SM 5210 B

Sample Results

(Continued)

Sample: SP 2_Comp Turkey Creek Effluent

25C0254-02 (Water)

Date Collected: 3/7/2025 8:00
Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals									
Phosphorous, Total (Reshot)	**2440**		9.18	50.0	ug/L	03/17/2025 08:43	03/18/2025 09:31	KEN	EPA 200.7
Wet Chemistry									
Chloride (Reshot)	**116**		1.86	4.00	mg/L	03/07/2025 13:51	03/07/2025 13:51	VP	EPA 300.0
Sulfate (Reshot)	**70.6**		0.710	4.00	mg/L	03/07/2025 13:51	03/07/2025 13:51	VP	EPA 300.0

Turkey Creek	Project:	TC Full Scan + Permit	
1147 Enclave Parkway	Project Number:	10495-109	
Houston, TX 77077	Project Manager:	Regulatory Compliance	**Reported:** 04/11/2025 07:58

Sample Results

(Continued)

Sample: SP 2_Grab Turkey Creek Effluent

25C0254-03 (Water)

Date Collected: 3/7/2025 8:55

Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chlorine, total residual	ND		0.100	0.100	mg/L	03/07/2025 08:55	03/07/2025 08:55	AXH	SM 4500-Cl D
Microbiology									
E.coli	ND		1	1	MPN/100mL	03/07/2025 10:42	03/08/2025 12:16	RNH	Colilert
Field									
Temperature, Celsius	**22.1**		0.00	0.100	°C	03/07/2025 08:55	03/07/2025 08:55	AXH	EPA 170.1
Oxygen, dissolved	**8.37**		1.00	1.00	mg/L	03/07/2025 08:55	03/07/2025 08:55	AXH	SM 4500-O G
pH	**7.77**		0.0100	2.00	SU	03/07/2025 08:55	03/07/2025 08:55	AXH	SM 4500-H+ B

Sample Results

(Continued)

Sample: Field Blank Field Blank TC

25C0254-04 (Water)

Date Collected: 3/6/2025 11:09
Date Received: 3/7/2025 11:50

Total Metals

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Mercury	ND		0.0928	0.500	ng/L	03/10/2025 10:57	03/11/2025 13:10	KEN	EPA 1631E
Silver	ND		0.0536	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Aluminum	**0.959**	J, B FLD	0.384	2.00	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Arsenic	ND		0.301	0.500	ug/L	03/18/2025 11:12	03/20/2025 12:46	VP/HZ	EPA 200.8
Barium	**0.188**	J, B FLD	0.0194	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Beryllium	ND		0.0382	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Cadmium	ND		0.0324	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Chromium	**0.307**	J	0.282	2.00	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Copper	**0.164**	B FLD, J	0.0810	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Nickel	ND		0.151	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Lead	ND		0.0665	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Antimony	ND		0.483	1.00	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Selenium	ND		0.264	2.50	ug/L	03/18/2025 11:12	03/20/2025 12:46	VP/HZ	EPA 200.8
Thallium	ND		0.110	0.500	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Vanadium	ND		0.172	2.00	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8
Zinc	**1.12**	B FLD, J	0.505	2.00	ug/L	03/18/2025 11:12	03/19/2025 11:42	VP/HZ	EPA 200.8

Turkey Creek	Project:	TC Full Scan + Permit	
1147 Enclave Parkway	Project Number:	10495-109	
Houston, TX 77077	Project Manager:	Regulatory Compliance	**Reported:** 04/11/2025 07:58

Sample Results

Data Analyzed by: A&B Environmental Services, Inc

Sample: SP 2_Comp Turkey Creek Effluent

25C0254-02 (Water)

Date Collected: 3/7/2025 8:00

Date Received: 3/7/2025 11:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chromium Hexavalent	ND		0.058	1	ug/L	04/01/2025 00:00	04/01/2025 00:00	A&B	EPA 218.6

Quality Control

Total Metals

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C126 - EPA 1631E										
Blank (B25C126-BLK1)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 11:40					
Mercury	ND		0.500	ng/L						
Blank (B25C126-BLK2)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 12:50					
Mercury	ND		0.500	ng/L						
Blank (B25C126-BLK3)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 13:40					
Mercury	0.102	J	0.500	ng/L						
Blank (B25C126-BLK4)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 13:30					
Mercury	ND		0.500	ng/L						
LCS (B25C126-BS1)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 11:20					
Mercury	4.92		0.500	ng/L	5.00		98.4	77-123		
LCS (B25C126-BS2)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 12:40					
Mercury	4.89		0.500	ng/L	5.00		97.8	77-123		
LCS (B25C126-BS3)					Prepared: 03/10/25 10:57 Analyzed: 03/11/25 13:50					
Mercury	4.77		0.500	ng/L	5.00		95.4	77-123		
Matrix Spike (B25C126-MS1)	**Source: 25C0254-01**				Prepared: 03/10/25 10:57 Analyzed: 03/11/25 12:00					
Mercury	9.94		0.500	ng/L	5.00	5.23	94.4	71-125		
Matrix Spike Dup (B25C126-MSD1)	**Source: 25C0254-01**				Prepared: 03/10/25 10:57 Analyzed: 03/11/25 12:10					
Mercury	10.7		0.500	ng/L	5.00	5.23	110	71-125	7.69	24
Batch: B25C234 - EPA 200.7										
Blank (B25C234-BLK1)					Prepared: 03/17/25 08:43 Analyzed: 03/18/25 09:27					
Phosphorous, Total	ND		50.0	ug/L						

Quality Control
(Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C234 - EPA 200.7 (Continued)										
LCS (B25C234-BS1)					Prepared: 03/17/25 08:43	Analyzed: 03/18/25 09:29				
Phosphorous, Total	2070		50.0	ug/L	2000		104	85-115		
Duplicate (B25C234-DUP1)	**Source: 25C0254-02RE1**				Prepared: 03/17/25 08:43	Analyzed: 03/18/25 09:32				
Phosphorous, Total	2530		50.0	ug/L		2440			3.36	20
Matrix Spike (B25C234-MS1)	**Source: 25C0254-02RE1**				Prepared: 03/17/25 08:43	Analyzed: 03/18/25 09:34				
Phosphorous, Total	4620		50.0	ug/L	2000	2440	109	70-130		
Matrix Spike Dup (B25C234-MSD1)	**Source: 25C0254-02RE1**				Prepared: 03/17/25 08:43	Analyzed: 03/18/25 09:37				
Phosphorous, Total	4420		50.0	ug/L	2000	2440	98.7	70-130	4.42	20
Batch: B25C260 - EPA 200.8										
Blank (B25C260-BLK1)					Prepared: 03/18/25 11:12	Analyzed: 03/19/25 11:38				
Aluminum	0.434	B 10x, J	2.00	ug/L						
Chromium	ND		2.00	ug/L						
Antimony	ND		1.00	ug/L						
Barium	ND		0.500	ug/L						
Beryllium	ND		0.500	ug/L						
Cadmium	ND		0.500	ug/L						
Copper	ND		0.500	ug/L						
Lead	ND		0.500	ug/L						
Nickel	ND		0.500	ug/L						
Silver	ND		0.500	ug/L						
Thallium	ND		0.500	ug/L						
Vanadium	ND		2.00	ug/L						
Zinc	ND		2.00	ug/L						

Quality Control
(Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C260 - EPA 200.8 (Continued)										
LCS (B25C260-BS1)			Prepared: 03/18/25 11:12 Analyzed: 03/19/25 12:24							
Aluminum	20.1		2.00	ug/L	20.0		100	85-115		
Antimony	20.2		1.00	ug/L	20.0		101	85-115		
Chromium	19.8		2.00	ug/L	20.0		98.8	85-115		
Barium	19.3		0.500	ug/L	20.0		96.3	85-115		
Beryllium	19.8		0.500	ug/L	20.0		99.0	85-115		
Cadmium	19.6		0.500	ug/L	20.0		98.0	85-115		
Copper	19.9		0.500	ug/L	20.0		99.7	85-115		
Lead	19.3		0.500	ug/L	20.0		96.4	85-115		
Nickel	19.5		0.500	ug/L	20.0		97.4	85-115		
Silver	20.0		0.500	ug/L	20.0		100	85-115		
Thallium	17.7		0.500	ug/L	20.0		88.5	85-115		
Vanadium	20.8		2.00	ug/L	20.0		104	85-115		
Zinc	19.3		2.00	ug/L	20.0		96.6	85-115		
Duplicate (B25C260-DUP1)	**Source: 25C0253-04**		Prepared: 03/18/25 11:12 Analyzed: 03/19/25 12:03							
Aluminum	11.2		2.00	ug/L		11.3			0.397	20
Chromium	0.724	J	2.00	ug/L		0.823			12.9	20
Antimony	0.755	J	1.00	ug/L		0.769			1.84	20
Barium	99.4		0.500	ug/L		99.7			0.299	20
Beryllium	ND		0.500	ug/L		ND				20
Cadmium	ND		0.500	ug/L		ND				20
Copper	2.63		0.500	ug/L		2.59			1.58	20
Lead	0.165	J	0.500	ug/L		0.166			0.586	20
Nickel	3.05		0.500	ug/L		2.94			3.58	20
Silver	ND		0.500	ug/L		ND				20
Thallium	ND		0.500	ug/L		ND				20
Vanadium	1.05	J	2.00	ug/L		1.14			8.37	20
Zinc	26.4		2.00	ug/L		26.4			0.263	20

Quality Control
(Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C260 - EPA 200.8 (Continued)										
Matrix Spike (B25C260-MS1)	**Source: 25C0253-04**		Prepared: 03/18/25 11:12		Analyzed: 03/19/25 12:07					
Aluminum	31.4		2.00	ug/L	20.0	11.3	101	70-130		
Antimony	20.6		1.00	ug/L	20.0	0.769	99.0	70-130		
Chromium	20.4		2.00	ug/L	20.0	0.823	98.1	70-130		
Barium	121		0.500	ug/L	20.0	99.7	107	70-130		
Beryllium	19.2		0.500	ug/L	20.0	ND	96.0	70-130		
Cadmium	19.3		0.500	ug/L	20.0	ND	96.3	70-130		
Copper	22.2		0.500	ug/L	20.0	2.59	97.9	70-130		
Lead	19.7		0.500	ug/L	20.0	0.166	97.8	70-130		
Nickel	22.0		0.500	ug/L	20.0	2.94	95.4	70-130		
Silver	19.4		0.500	ug/L	20.0	ND	96.9	70-130		
Thallium	17.9		0.500	ug/L	20.0	ND	89.6	70-130		
Vanadium	22.5		2.00	ug/L	20.0	1.14	107	70-130		
Zinc	46.6		2.00	ug/L	20.0	26.4	101	70-130		
Matrix Spike Dup (B25C260-MSD1)	**Source: 25C0253-04**		Prepared: 03/18/25 11:12		Analyzed: 03/19/25 12:11					
Aluminum	30.8		2.00	ug/L	20.0	11.3	97.8	70-130	2.00	20
Chromium	20.1		2.00	ug/L	20.0	0.823	96.6	70-130	1.52	20
Antimony	20.6		1.00	ug/L	20.0	0.769	99.2	70-130	0.252	20
Barium	124		0.500	ug/L	20.0	99.7	121	70-130	2.21	20
Beryllium	19.5		0.500	ug/L	20.0	ND	97.3	70-130	1.37	20
Cadmium	19.1		0.500	ug/L	20.0	ND	95.3	70-130	1.01	20
Copper	21.9		0.500	ug/L	20.0	2.59	96.7	70-130	1.01	20
Lead	20.0		0.500	ug/L	20.0	0.166	99.2	70-130	1.47	20
Nickel	22.1		0.500	ug/L	20.0	2.94	95.6	70-130	0.245	20
Silver	19.0		0.500	ug/L	20.0	ND	95.0	70-130	2.06	20
Thallium	19.4		0.500	ug/L	20.0	ND	97.0	70-130	7.99	20
Vanadium	22.4		2.00	ug/L	20.0	1.14	107	70-130	0.119	20
Zinc	46.3		2.00	ug/L	20.0	26.4	99.3	70-130	0.598	20

Quality Control
(Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C330 - EPA 200.8										
Blank (B25C330-BLK1)			Prepared: 03/18/25 11:12 Analyzed: 03/20/25 12:42							
Arsenic	ND		0.500	ug/L						
Selenium	ND		2.50	ug/L						
LCS (B25C330-BS1)			Prepared: 03/18/25 11:12 Analyzed: 03/20/25 13:28							
Arsenic	19.3		0.500	ug/L	20.0		96.7	85-115		
Selenium	96.4		2.50	ug/L	100		96.4	85-115		
Duplicate (B25C330-DUP1)	**Source: 25C0253-04**		Prepared: 03/18/25 11:12 Analyzed: 03/20/25 13:07							
Arsenic	0.869		0.500	ug/L		0.913			4.88	20
Selenium	0.352	J	2.50	ug/L		0.375			6.44	20
Matrix Spike (B25C330-MS1)	**Source: 25C0253-04**		Prepared: 03/18/25 11:12 Analyzed: 03/20/25 13:11							
Arsenic	20.4		0.500	ug/L	20.0	0.913	97.4	70-130		
Selenium	94.9		2.50	ug/L	100	0.375	94.5	70-130		
Matrix Spike Dup (B25C330-MSD1)	**Source: 25C0253-04**		Prepared: 03/18/25 11:12 Analyzed: 03/20/25 13:15							
Arsenic	20.5		0.500	ug/L	20.0	0.913	98.1	70-130	0.627	20
Selenium	95.2		2.50	ug/L	100	0.375	94.8	70-130	0.327	20

Quality Control
(Continued)

Semivolatile Organics

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C123 - EPA 625.1_SPE										
Blank (B25C123-BLK1)			Prepared: 03/10/25 07:53 Analyzed: 03/19/25 10:15							
1,2,4,5-Tetrachlorobenzene	ND		5.00	ug/L						
1,2,4-Trichlorobenzene	ND		5.00	ug/L						
2,4,5-Trichlorophenol	ND		5.00	ug/L						
2,4,6-Trichlorophenol	ND		5.00	ug/L						
2,4-Dichlorophenol	ND		5.00	ug/L						
2,4-Dimethylphenol	ND		5.00	ug/L						
2,4-Dinitrophenol	ND		20.0	ug/L						
2,4-Dinitrotoluene	ND		5.00	ug/L						
2,6-Dinitrotoluene	ND		5.00	ug/L						
2-Chloronaphthalene	ND		5.00	ug/L						
2-Chlorophenol	ND		5.00	ug/L						
2-Methylphenol	ND		10.0	ug/L						
2-Nitrophenol	ND		5.00	ug/L						
3,3'-Dichlorobenzidine	ND		20.0	ug/L						
4,6-Dinitro-2-methylphenol	ND		20.0	ug/L						
4-Bromophenyl phenyl ether	ND		5.00	ug/L						
4-Chloro-3-methylphenol	ND		5.00	ug/L						
4-Chlorophenyl phenyl Ether	ND		5.00	ug/L						
4-Methylphenol	ND		5.00	ug/L						
4-Nitrophenol	ND		5.00	ug/L						
Acenaphthene	ND		5.00	ug/L						
Acenaphthylene	ND		5.00	ug/L						
Aniline	ND		5.00	ug/L						
Anthracene	ND		5.00	ug/L						
Azobenzene	ND		5.00	ug/L						
Benzidine	ND		100	ug/L						
Benzo(a)pyrene	ND		5.00	ug/L						
Benzo(b)fluoranthene	ND		5.00	ug/L						
Benzo(k)Fluoranthene	ND		5.00	ug/L						
Benzo(g,h,i)perylene	ND		5.00	ug/L						
Benzo[a]anthracene	ND		5.00	ug/L						
Bis(2-chloroethoxy) methane	ND		5.00	ug/L						
Bis(2-chloroethyl) ether	ND		5.00	ug/L						
Bis(2-chloroisopropyl) ether	ND		5.00	ug/L						
Bis(2-ethylhexyl) phthalate	ND		5.00	ug/L						
Butyl benzyl phthalate	ND		5.00	ug/L						
Carbazole	ND		5.00	ug/L						
Chrysene	ND		5.00	ug/L						
Dibenzo(a,h)anthracene	ND		5.00	ug/L						
Diethyl phthalate	ND		5.00	ug/L						
Dimethyl phthalate	ND		2.50	ug/L						
Di-n-butyl phthalate	ND		5.00	ug/L						
Di-n-octyl phthalate	ND		5.00	ug/L						
Fluoranthene	ND		5.00	ug/L						
Fluorene	ND		5.00	ug/L						
Hexachlorobenzene	ND		5.00	ug/L						
Hexachlorobutadiene	ND		2.50	ug/L						

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C123 - EPA 625.1_SPE (Continued)										
Blank (B25C123-BLK1)				Prepared: 03/10/25 07:53 Analyzed: 03/19/25 10:15						
Hexachlorocyclopentadiene	ND		5.00	ug/L						
Hexachloroethane	ND		2.50	ug/L						
Indeno(1,2,3-cd)pyrene	ND		5.00	ug/L						
Isophorone	ND		5.00	ug/L						
Naphthalene	ND		2.50	ug/L						
n-Decane	ND		5.00	ug/L						
Nitrobenzene	ND		5.00	ug/L						
N-Nitrosodi-n-butylamine	ND		5.00	ug/L						
N-Nitrosodiethylamine	ND		5.00	ug/L						
N-Nitrosodimethylamine	ND		5.00	ug/L						
N-Nitrosodi-n-propylamine	ND		5.00	ug/L						
N-Nitrosodiphenylamine	ND		5.00	ug/L						
n-Octadecane	ND		5.00	ug/L						
Pentachlorobenzene	ND		5.00	ug/L						
Pentachlorophenol	ND		5.00	ug/L						
Phenanthrene	ND		5.00	ug/L						
Phenol	ND		2.50	ug/L						
Pyrene	ND		5.00	ug/L						
Pyridine	ND		5.00	ug/L						
3-Methylphenol	ND		5.00	ug/L						
LCS (B25C123-BS1)				Prepared: 03/10/25 07:53 Analyzed: 03/19/25 10:43						
1,2,4-Trichlorobenzene	11.9		5.00	ug/L	20.0		59.6	57-130		
2,4,5-Trichlorophenol	14.6		5.00	ug/L	20.0		73.2	36-123		
2,4,6-Trichlorophenol	13.8		5.00	ug/L	20.0		69.1	52-129		
2,4-Dichlorophenol	14.9		5.00	ug/L	20.0		74.4	53-122		
2,4-Dimethylphenol	13.3		5.00	ug/L	20.0		66.3	42-120		
2,4-Dinitrophenol	15.5	J	20.0	ug/L	20.0		77.4	1-173		
2,4-Dinitrotoluene	16.7		5.00	ug/L	20.0		83.7	48-127		
2,6-Dinitrotoluene	15.4		5.00	ug/L	20.0		77.1	68-137		
2-Chloronaphthalene	13.0		5.00	ug/L	20.0		65.1	35-120		
2-Chlorophenol	14.3		5.00	ug/L	20.0		71.5	36-120		
2-Methylphenol	15.6		10.0	ug/L	20.0		78.2	10-125		
2-Nitrophenol	16.1		5.00	ug/L	20.0		80.5	45-167		
3,3'-Dichlorobenzidine	23.2		20.0	ug/L	40.0		57.9	8-213		
4,6-Dinitro-2-methylphenol	18.8	J	20.0	ug/L	20.0		94.0	53-130		
4-Bromophenyl phenyl ether	11.9		5.00	ug/L	20.0		59.5	65-120		
4-Chloro-3-methylphenol	16.6		5.00	ug/L	20.0		82.9	41-128		
4-Chlorophenyl phenyl Ether	14.1		5.00	ug/L	20.0		70.3	38-145		
4-Methylphenol	6.53		5.00	ug/L	10.0		65.3	25-144		
4-Nitrophenol	20.2		5.00	ug/L	20.0		101	13-129		
Acenaphthene	14.5		5.00	ug/L	20.0		72.4	60-132		
Acenaphthylene	14.7		5.00	ug/L	20.0		73.7	54-126		
Aniline	9.34		5.00	ug/L	20.0		46.7	10-130		
Anthracene	15.4		5.00	ug/L	20.0		77.2	43-120		
Azobenzene	16.3		5.00	ug/L	20.0		81.4	33-125		
Benzidine	ND	BS Org	100	ug/L	40.0			10-154		

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C123 - EPA 625.1_SPE (Continued)										
LCS (B25C123-BS1)				Prepared: 03/10/25 07:53 Analyzed: 03/19/25 10:43						
Benzo(a)pyrene	20.2		5.00	ug/L	20.0		101	32-148		
Benzo(b)fluoranthene	21.3		5.00	ug/L	20.0		106	42-140		
Benzo(k)Fluoranthene	19.1		5.00	ug/L	20.0		95.7	25-146		
Benzo(g,h,i)perylene	15.8		5.00	ug/L	20.0		79.0	1-195		
Benzo[a]anthracene	17.8		5.00	ug/L	20.0		89.0	42-133		
Bis(2-chloroethoxy) methane	14.3		5.00	ug/L	20.0		71.6	49-165		
Bis(2-chloroethyl) ether	14.5		5.00	ug/L	20.0		72.3	43-126		
Bis(2-chloroisopropyl) ether	11.5		5.00	ug/L	20.0		57.4	63-139		
Bis(2-ethylhexyl) phthalate	25.1		5.00	ug/L	20.0		126	29-137		
Butyl benzyl phthalate	25.2		5.00	ug/L	20.0		126	1-140		
Carbazole	17.4		5.00	ug/L	20.0		87.1	60-140		
Chrysene	17.2		5.00	ug/L	20.0		86.2	44-140		
Dibenzo(a,h)anthracene	16.3		5.00	ug/L	20.0		81.7	1-200		
Diethyl phthalate	15.3		5.00	ug/L	20.0		76.5	1-120		
Dimethyl phthalate	14.4		2.50	ug/L	20.0		72.1	1-120		
Di-n-butyl phthalate	18.4		5.00	ug/L	20.0		92.2	8-120		
Di-n-octyl phthalate	34.2	BS ND	5.00	ug/L	20.0		171	19-132		
Fluoranthene	16.9		5.00	ug/L	20.0		84.5	43-121		
Fluorene	14.5		5.00	ug/L	20.0		72.6	70-120		
Hexachlorobenzene	11.1		5.00	ug/L	20.0		55.3	8-142		
Hexachlorobutadiene	8.78		2.50	ug/L	20.0		43.9	38-120		
Hexachlorocyclopentadiene	8.18		5.00	ug/L	20.0		40.9	10-130		
Hexachloroethane	11.1		2.50	ug/L	20.0		55.5	55-120		
Indeno(1,2,3-cd)pyrene	16.2		5.00	ug/L	20.0		81.0	1-151		
Isophorone	13.8		5.00	ug/L	20.0		69.0	47-180		
Naphthalene	13.8		2.50	ug/L	20.0		69.0	36-120		
n-Decane	4.57	J	5.00	ug/L	20.0		22.8	10-130		
Nitrobenzene	12.6		5.00	ug/L	20.0		62.8	54-158		
N-Nitosodi-n-butylamine	15.6		5.00	ug/L	20.0		78.1	42-123		
N-Nitrosodiethylamine	12.5		5.00	ug/L	20.0		62.3	34-112		
N-Nitrosodimethylamine	4.62	J	5.00	ug/L	20.0		23.1	10-130		
N-Nitrosodi-n-propylamine	16.2		5.00	ug/L	20.0		81.1	14-198		
N-Nitrosodiphenylamine	14.7		5.00	ug/L	20.0		73.5	40-124		
n-Octadecane	14.2		5.00	ug/L	20.0		71.1	21-128		
Pentachlorobenzene	10.7		5.00	ug/L	20.0		53.3	29-109		
Pentachlorophenol	11.0		5.00	ug/L	20.0		54.8	38-125		
Phenanthrene	14.5		5.00	ug/L	20.0		72.6	65-120		
Phenol	12.3		2.50	ug/L	20.0		61.3	17-120		
Pyrene	21.7		5.00	ug/L	20.0		108	70-120		
Pyridine	2.29	J	5.00	ug/L	20.0		11.4	10-130		
3-Methylphenol	6.57		5.00	ug/L	10.0		65.7	10-125		

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C123 - EPA 625.1_SPE (Continued)										
Matrix Spike (B25C123-MS1)	**Source: 25C0254-02**		Prepared: 03/10/25 07:53		Analyzed: 03/19/25 11:11					
1,2,4-Trichlorobenzene	21.6		10.0	ug/L	40.0	ND	54.1	44-142		
2,4,5-Trichlorophenol	28.3		10.0	ug/L	40.0	ND	70.8	29-138		
2,4,6-Trichlorophenol	24.7		10.0	ug/L	40.0	ND	61.8	37-144		
2,4-Dichlorophenol	25.3		10.0	ug/L	40.0	ND	63.3	39-135		
2,4-Dimethylphenol	17.8		10.0	ug/L	40.0	ND	44.4	32-120		
2,4-Dinitrophenol	36.6	J	40.0	ug/L	40.0	ND	91.6	1-191		
2,4-Dinitrotoluene	31.4		10.0	ug/L	40.0	ND	78.5	39-139		
2,6-Dinitrotoluene	27.2		10.0	ug/L	40.0	ND	68.1	50-158		
2-Chloronaphthalene	22.7	MS1	10.0	ug/L	40.0	ND	56.8	60-120		
2-Chlorophenol	25.2		10.0	ug/L	40.0	ND	63.1	23-134		
2-Methylphenol	ND	MS1	20.0	ug/L	40.0	ND		10-133		
2-Nitrophenol	28.2		10.0	ug/L	40.0	ND	70.6	29-182		
3,3'-Dichlorobenzidine	ND	MS1	40.0	ug/L	80.0	ND		1-262		
4,6-Dinitro-2-methylphenol	38.6	J	40.0	ug/L	40.0	ND	96.5	1-181		
4-Bromophenyl phenyl ether	22.2		10.0	ug/L	40.0	ND	55.4	53-127		
4-Chloro-3-methylphenol	30.3		10.0	ug/L	40.0	ND	75.8	22-147		
4-Chlorophenyl phenyl Ether	23.9		10.0	ug/L	40.0	ND	59.9	25-158		
4-Methylphenol	11.2		10.0	ug/L	20.0	ND	56.1	13-152		
4-Nitrophenol	38.0		10.0	ug/L	40.0	ND	95.0	1-132		
Acenaphthene	24.5		10.0	ug/L	40.0	ND	61.3	47-145		
Acenaphthylene	25.4		10.0	ug/L	40.0	ND	63.5	33-145		
Aniline	16.5		10.0	ug/L	40.0	ND	41.3	10-101		
Anthracene	29.4		10.0	ug/L	40.0	ND	73.6	27-133		
Azobenzene	29.1		10.0	ug/L	40.0	ND	72.7	34-126		
Benzidine	ND	MS1	200	ug/L	80.0	ND		10-130		
Benzo(a)pyrene	38.5		10.0	ug/L	40.0	ND	96.1	17-163		
Benzo(b)fluoranthene	41.6		10.0	ug/L	40.0	ND	104	24-159		
Benzo(k)Fluoranthene	38.9		10.0	ug/L	40.0	ND	97.2	11-132		
Benzo(g,h,i)perylene	35.2		10.0	ug/L	40.0	ND	88.1	1-219		
Benzo[a]anthracene	32.2		10.0	ug/L	40.0	ND	80.5	33-143		
Bis(2-chloroethoxy) methane	24.8		10.0	ug/L	40.0	ND	62.0	33-184		
Bis(2-chloroethyl) ether	25.4		10.0	ug/L	40.0	ND	63.5	12-158		
Bis(2-chloroisopropyl) ether	21.1		10.0	ug/L	40.0	ND	52.8	36-166		
Bis(2-ethylhexyl) phthalate	47.8		10.0	ug/L	40.0	ND	120	8-158		
Butyl benzyl phthalate	47.8		10.0	ug/L	40.0	ND	120	1-152		
Carbazole	32.7		10.0	ug/L	40.0	ND	81.6	60-140		
Chrysene	31.0		10.0	ug/L	40.0	ND	77.6	17-168		
Dibenzo(a,h)anthracene	36.9		10.0	ug/L	40.0	ND	92.2	1-227		
Diethyl phthalate	28.0		10.0	ug/L	40.0	ND	69.9	1-120		
Dimethyl phthalate	25.4		5.00	ug/L	40.0	ND	63.4	1-120		
Di-n-butyl phthalate	35.9		10.0	ug/L	40.0	ND	89.9	1-120		
Di-n-octyl phthalate	69.1	MS1	10.0	ug/L	40.0	ND	173	4-146		
Fluoranthene	32.6		10.0	ug/L	40.0	ND	81.6	26-137		
Fluorene	25.2		10.0	ug/L	40.0	ND	62.9	59-121		
Hexachlorobenzene	22.2		10.0	ug/L	40.0	ND	55.4	1-152		
Hexachlorobutadiene	16.4		5.00	ug/L	40.0	ND	40.9	24-120		
Hexachlorocyclopentadiene	13.8		10.0	ug/L	40.0	ND	34.6	10-103		

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C123 - EPA 625.1_SPE (Continued)										
Matrix Spike (B25C123-MS1)	**Source: 25C0254-02**		Prepared: 03/10/25 07:53 Analyzed: 03/19/25 11:11							
Hexachloroethane	21.0		5.00	ug/L	40.0	ND	52.6	40-120		
Indeno(1,2,3-cd)pyrene	37.2		10.0	ug/L	40.0	ND	92.9	1-171		
Isophorone	24.3		10.0	ug/L	40.0	ND	60.7	21-196		
Naphthalene	25.0		5.00	ug/L	40.0	ND	62.6	21-133		
n-Decane	10.2		10.0	ug/L	40.0	ND	25.5	10-130		
Nitrobenzene	26.9		10.0	ug/L	40.0	ND	67.2	35-180		
N-Nitosodi-n-butylamine	26.1		10.0	ug/L	40.0	ND	65.2	33-135		
N-Nitrosodiethylamine	22.9		10.0	ug/L	40.0	ND	57.1	24-124		
N-Nitrosodimethylamine	8.25	J	10.0	ug/L	40.0	ND	20.6	10-130		
N-Nitrosodi-n-propylamine	29.8		10.0	ug/L	40.0	ND	74.6	1-230		
N-Nitrosodiphenylamine	29.3		10.0	ug/L	40.0	ND	73.2	33-133		
n-Octadecane	27.7		10.0	ug/L	40.0	ND	69.2	28-140		
Pentachlorobenzene	19.4		10.0	ug/L	40.0	ND	48.6	19-127		
Pentachlorophenol	23.0		10.0	ug/L	40.0	ND	57.5	14-176		
Phenanthrene	29.0		10.0	ug/L	40.0	ND	72.6	54-120		
Phenol	22.1		5.00	ug/L	40.0	ND	55.3	5-120		
Pyrene	42.1		10.0	ug/L	40.0	ND	105	52-120		
Pyridine	3.83	MS1, J	10.0	ug/L	40.0	ND	9.57	10-130		
3-Methylphenol	11.2		10.0	ug/L	20.0	ND	56.0	10-133		
Matrix Spike Dup (B25C123-MSD1)	**Source: 25C0254-02**		Prepared: 03/10/25 07:53 Analyzed: 03/19/25 11:39							
1,2,4-Trichlorobenzene	24.2		10.0	ug/L	40.0	ND	60.4	44-142	11.1	50
2,4,5-Trichlorophenol	28.4		10.0	ug/L	40.0	ND	71.0	29-138	0.250	35
2,4,6-Trichlorophenol	28.2		10.0	ug/L	40.0	ND	70.5	37-144	13.2	58
2,4-Dichlorophenol	29.3		10.0	ug/L	40.0	ND	73.2	39-135	14.5	50
2,4-Dimethylphenol	20.2		10.0	ug/L	40.0	ND	50.4	32-120	12.7	58
2,4-Dinitrophenol	35.5	J	40.0	ug/L	40.0	ND	88.9	1-191	3.03	132
2,4-Dinitrotoluene	33.7		10.0	ug/L	40.0	ND	84.3	39-139	7.20	42
2,6-Dinitrotoluene	31.4		10.0	ug/L	40.0	ND	78.4	50-158	14.0	48
2-Chloronaphthalene	25.2		10.0	ug/L	40.0	ND	63.1	60-120	10.5	24
2-Chlorophenol	28.3		10.0	ug/L	40.0	ND	70.7	23-134	11.5	61
2-Methylphenol	ND	MS1	20.0	ug/L	40.0	ND		10-133		49
2-Nitrophenol	31.8		10.0	ug/L	40.0	ND	79.5	29-182	11.9	55
3,3'-Dichlorobenzidine	ND	MS1	40.0	ug/L	80.0	ND		1-262		108
4,6-Dinitro-2-methylphenol	36.9	J	40.0	ug/L	40.0	ND	92.3	1-181	4.50	203
4-Bromophenyl phenyl ether	24.3		10.0	ug/L	40.0	ND	60.8	53-127	9.16	50
4-Chloro-3-methylphenol	34.1		10.0	ug/L	40.0	ND	85.2	22-147	11.6	73
4-Chlorophenyl phenyl Ether	27.1		10.0	ug/L	40.0	ND	67.7	25-158	12.3	61
4-Methylphenol	13.0		10.0	ug/L	20.0	ND	65.2	13-152	14.9	35
4-Nitrophenol	34.9		10.0	ug/L	40.0	ND	87.2	1-132	8.56	131
Acenaphthene	27.7		10.0	ug/L	40.0	ND	69.2	47-145	12.1	48
Acenaphthylene	27.6		10.0	ug/L	40.0	ND	69.1	33-145	8.40	74
Aniline	18.1		10.0	ug/L	40.0	ND	45.2	10-101	9.07	59
Anthracene	30.4		10.0	ug/L	40.0	ND	75.9	27-133	3.10	66
Azobenzene	33.0		10.0	ug/L	40.0	ND	82.5	34-126	12.6	35
Benzidine	ND	MS1	200	ug/L	80.0	ND		10-130		50
Benzo(a)pyrene	35.5		10.0	ug/L	40.0	ND	88.7	17-163	8.01	72

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C123 - EPA 625.1_SPE (Continued)										
Matrix Spike Dup (B25C123-MSD1)	**Source: 25C0254-02**		Prepared: 03/10/25 07:53 Analyzed: 03/19/25 11:39							
Benzo(b)fluoranthene	37.7		10.0	ug/L	40.0	ND	94.2	24-159	9.99	71
Benzo(k)Fluoranthene	35.2		10.0	ug/L	40.0	ND	88.0	11-132	9.99	63
Benzo(g,h,i)perylene	31.8		10.0	ug/L	40.0	ND	79.5	1-219	10.3	97
Benzo[a]anthracene	30.4		10.0	ug/L	40.0	ND	76.1	33-143	5.67	53
Bis(2-chloroethoxy) methane	27.7		10.0	ug/L	40.0	ND	69.2	33-184	10.9	54
Bis(2-chloroethyl) ether	28.0		10.0	ug/L	40.0	ND	69.9	12-158	9.61	108
Bis(2-chloroisopropyl) ether	22.9		10.0	ug/L	40.0	ND	57.2	36-166	7.95	76
Bis(2-ethylhexyl) phthalate	46.0		10.0	ug/L	40.0	ND	115	8-158	3.76	82
Butyl benzyl phthalate	44.5		10.0	ug/L	40.0	ND	111	1-152	7.16	60
Carbazole	30.4		10.0	ug/L	40.0	ND	76.1	60-140	7.00	35
Chrysene	28.4		10.0	ug/L	40.0	ND	71.0	17-168	8.89	87
Dibenzo(a,h)anthracene	33.2		10.0	ug/L	40.0	ND	82.9	1-227	10.6	126
Diethyl phthalate	31.1		10.0	ug/L	40.0	ND	77.7	1-120	10.6	100
Dimethyl phthalate	29.2		5.00	ug/L	40.0	ND	72.9	1-120	13.9	183
Di-n-butyl phthalate	34.2		10.0	ug/L	40.0	ND	85.5	1-120	4.94	47
Di-n-octyl phthalate	65.7	MS1	10.0	ug/L	40.0	ND	164	4-146	4.95	69
Fluoranthene	30.3		10.0	ug/L	40.0	ND	75.9	26-137	7.23	66
Fluorene	29.0		10.0	ug/L	40.0	ND	72.5	59-121	14.2	38
Hexachlorobenzene	23.8		10.0	ug/L	40.0	ND	59.5	1-152	7.17	55
Hexachlorobutadiene	18.0		5.00	ug/L	40.0	ND	45.0	24-120	9.38	62
Hexachlorocyclopentadiene	15.4		10.0	ug/L	40.0	ND	38.5	10-103	10.7	50
Hexachloroethane	23.2		5.00	ug/L	40.0	ND	58.1	40-120	9.97	52
Indeno(1,2,3-cd)pyrene	33.7		10.0	ug/L	40.0	ND	84.2	1-171	9.89	99
Isophorone	27.2		10.0	ug/L	40.0	ND	68.0	21-196	11.3	93
Naphthalene	28.0		5.00	ug/L	40.0	ND	69.9	21-133	11.1	65
n-Decane	12.3		10.0	ug/L	40.0	ND	30.6	10-130	18.2	50
Nitrobenzene	29.7		10.0	ug/L	40.0	ND	74.2	35-180	9.80	50
N-Nitrosodi-n-butylamine	30.3		10.0	ug/L	40.0	ND	75.9	33-135	15.2	35
N-Nitrosodiethylamine	24.6		10.0	ug/L	40.0	ND	61.6	24-124	7.55	50
N-Nitrosodimethylamine	8.62	J	10.0	ug/L	40.0	ND	21.6	10-130	4.41	35
N-Nitrosodi-n-propylamine	32.3		10.0	ug/L	40.0	ND	80.8	1-230	7.99	87
N-Nitrosodiphenylamine	29.9		10.0	ug/L	40.0	ND	74.7	33-133	1.95	35
n-Octadecane	30.6		10.0	ug/L	40.0	ND	76.6	28-140	10.1	35
Pentachlorobenzene	21.4		10.0	ug/L	40.0	ND	53.5	19-127	9.55	35
Pentachlorophenol	21.8		10.0	ug/L	40.0	ND	54.5	14-176	5.41	86
Phenanthrene	29.4		10.0	ug/L	40.0	ND	73.6	54-120	1.40	39
Phenol	20.1		5.00	ug/L	40.0	ND	50.4	5-120	9.33	64
Pyrene	40.8		10.0	ug/L	40.0	ND	102	52-120	3.08	49
Pyridine	4.20	J	10.0	ug/L	40.0	ND	10.5	10-130	9.25	50
3-Methylphenol	13.0		10.0	ug/L	20.0	ND	65.2	10-133	15.1	49

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C145 - EPA 608.3										
Blank (B25C145-BLK1)			Prepared: 03/11/25 08:18 Analyzed: 03/20/25 09:37							
4,4'-DDD	ND		0.0250	ug/L						
4,4'-DDE	ND		0.00500	ug/L						
4,4'-DDT	ND		0.0250	ug/L						
Aldrin	ND		0.00500	ug/L						
Alpha-BHC	ND		0.00500	ug/L						
Beta-BHC	ND		0.00500	ug/L						
Chlordane	ND		0.200	ug/L						
Delta-BHC	ND		0.00500	ug/L						
Dicofol	ND		0.0500	ug/L						
Dieldrin	ND		0.00500	ug/L						
Endosulfan I	ND		0.00500	ug/L						
Endosulfan II	ND		0.0250	ug/L						
Endosulfan Sulfate	ND		0.0250	ug/L						
Endrin	ND		0.0250	ug/L						
Endrin-Aldehyde	ND		0.00500	ug/L						
Gamma-BHC	ND		0.00500	ug/L						
Heptachlor	ND		0.00500	ug/L						
Heptachlor epoxide	ND		0.00500	ug/L						
Methoxychlor	ND		0.00500	ug/L						
Mirex	ND		0.00500	ug/L						
PCB-1016	ND		0.200	ug/L						
PCB-1221	ND		0.200	ug/L						
PCB-1232	ND		0.200	ug/L						
PCB-1242	ND		0.200	ug/L						
PCB-1248	ND		0.200	ug/L						
PCB-1254	ND		0.200	ug/L						
PCB-1260	ND		0.200	ug/L						
Toxaphene	ND		0.200	ug/L						
Polychlorinated biphenyls, Total	ND		0.200	ug/L						

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C145 - EPA 608.3 (Continued)										
LCS (B25C145-BS1)				Prepared: 03/11/25 08:18 Analyzed: 03/20/25 09:57						
4,4'-DDD	0.0440		0.0250	ug/L	0.0500		88.0	31-141		
4,4'-DDE	0.0350		0.00500	ug/L	0.0500		70.0	30-145		
4,4'-DDT	0.0400		0.0250	ug/L	0.0500		80.0	25-160		
Aldrin	0.0360		0.00500	ug/L	0.0500		72.0	42-140		
Alpha-BHC	0.0380		0.00500	ug/L	0.0500		76.0	37-140		
Beta-BHC	0.0450		0.00500	ug/L	0.0500		90.0	17-147		
Delta-BHC	0.0430		0.00500	ug/L	0.0500		86.0	34-140		
Dicofol (2)	0.237	BS Org	0.0500	ug/L	0.500		47.4	50-150		
Dieldrin	0.0460		0.00500	ug/L	0.0500		92.0	36-146		
Endosulfan I	0.0460		0.00500	ug/L	0.0500		92.0	45-153		
Endosulfan II	0.0460		0.0250	ug/L	0.0500		92.0	0-202		
Endosulfan Sulfate	0.0360		0.0250	ug/L	0.0500		72.0	50-150		
Endrin	0.0490		0.0250	ug/L	0.0500		98.0	30-147		
Endrin-Aldehyde	0.0310		0.00500	ug/L	0.0500		62.0	50-150		
Gamma-BHC	0.0420		0.00500	ug/L	0.0500		84.0	32-140		
Heptachlor	0.0360		0.00500	ug/L	0.0500		72.0	19-140		
Heptachlor epoxide	0.0440		0.00500	ug/L	0.0500		88.0	37-142		
Methoxychlor	0.0470		0.00500	ug/L	0.0500		94.0	26-144		
Mirex	0.0320		0.00500	ug/L	0.0500		64.0	50-150		
LCS (B25C145-BS2)				Prepared: 03/11/25 08:18 Analyzed: 03/20/25 10:12						
PCB-1016	0.737		0.200	ug/L	1.00		73.7	50-140		
PCB-1260	0.618		0.200	ug/L	1.00		61.8	8-140		
Toxaphene	ND		0.200	ug/L				41-140		
Matrix Spike (B25C145-MS1)	**Source: 25C0254-02**			Prepared: 03/11/25 08:18 Analyzed: 03/20/25 10:27						
4,4'-DDD	0.102		0.0500	ug/L	0.100	ND	102	31-141		
4,4'-DDE	0.106		0.0100	ug/L	0.100	ND	106	30-145		
4,4'-DDT	0.0840		0.0500	ug/L	0.100	ND	84.0	25-160		
Aldrin (2)	0.0500		0.0100	ug/L	0.100	ND	50.0	42-140		
Alpha-BHC	0.0740		0.0100	ug/L	0.100	ND	74.0	37-140		
Beta-BHC (2)	0.108		0.0100	ug/L	0.100	ND	108	17-147		
Delta-BHC	0.122		0.0100	ug/L	0.100	ND	122	34-140		
Dicofol (2)	0.520		0.100	ug/L	1.00	ND	52.0	50-150		
Dieldrin	0.108		0.0100	ug/L	0.100	ND	108	36-146		
Endosulfan I	0.130		0.0100	ug/L	0.100	ND	130	45-153		
Endosulfan II	0.102		0.0500	ug/L	0.100	ND	102	0-202		
Endosulfan Sulfate	0.100		0.0500	ug/L	0.100	ND	100	50-150		
Endrin	0.108		0.0500	ug/L	0.100	ND	108	30-147		
Endrin-Aldehyde	0.0920		0.0100	ug/L	0.100	ND	92.0	50-150		
Gamma-BHC	0.102		0.0100	ug/L	0.100	ND	102	32-140		
Heptachlor	0.188	MS1	0.0100	ug/L	0.100	ND	188	19-140		
Heptachlor epoxide	0.104		0.0100	ug/L	0.100	ND	104	37-142		
Methoxychlor	0.132		0.0100	ug/L	0.100	ND	132	26-144		
Mirex	0.0460	MS1	0.0100	ug/L	0.100	ND	46.0	50-150		

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C145 - EPA 608.3 (Continued)										
Matrix Spike Dup (B25C145-MSD1)	**Source: 25C0254-02**		Prepared: 03/11/25 08:18 Analyzed: 03/20/25 10:43							
4,4'-DDD	0.0980		0.0500	ug/L	0.100	ND	98.0	31-141	4.00	39
4,4'-DDE	0.0860		0.0100	ug/L	0.100	ND	86.0	30-145	20.8	35
4,4'-DDT	0.0820		0.0500	ug/L	0.100	ND	82.0	25-160	2.41	42
Aldrin (2)	0.0500		0.0100	ug/L	0.100	ND	50.0	42-140	0.00	35
Alpha-BHC	0.0740		0.0100	ug/L	0.100	ND	74.0	37-140	0.00	36
Beta-BHC (2)	0.122		0.0100	ug/L	0.100	ND	122	17-147	12.2	44
Delta-BHC	0.126		0.0100	ug/L	0.100	ND	126	34-140	3.23	43
Dicofol (2)	0.500		0.100	ug/L	1.00	ND	50.0	50-150	3.92	50
Dieldrin	0.110		0.0100	ug/L	0.100	ND	110	36-146	1.83	49
Endosulfan I	0.130		0.0100	ug/L	0.100	ND	130	45-153	0.00	28
Endosulfan II	0.104		0.0500	ug/L	0.100	ND	104	0-202	1.94	53
Endosulfan Sulfate	0.116		0.0500	ug/L	0.100	ND	116	50-150	14.8	50
Endrin	0.110		0.0500	ug/L	0.100	ND	110	30-147	1.83	48
Endrin-Aldehyde	0.0940		0.0100	ug/L	0.100	ND	94.0	50-150	2.15	50
Gamma-BHC	0.108		0.0100	ug/L	0.100	ND	108	32-140	5.71	39
Heptachlor	0.190	MS1	0.0100	ug/L	0.100	ND	190	19-140	1.06	52
Heptachlor epoxide	0.104		0.0100	ug/L	0.100	ND	104	37-142	0.00	26
Methoxychlor	0.128		0.0100	ug/L	0.100	ND	128	26-144	3.08	38
Mirex	0.0440	MS1	0.0100	ug/L	0.100	ND	44.0	50-150	4.44	50
Batch: B25C163 - EPA 1657										
Blank (B25C163-BLK1)			Prepared: 03/12/25 08:55 Analyzed: 03/14/25 16:31							
Chlorpyrifos (2)	ND		0.250	ug/L						
Demeton-o (2)	ND		0.250	ug/L						
Demeton-s (2)	ND		0.250	ug/L						
Diazinon (2)	ND		0.250	ug/L						
ethyl-Parathion (2)	ND		0.250	ug/L						
Malathion (2)	ND		0.250	ug/L						
methyl Azinphos (Guthion) (2)	ND		0.250	ug/L						

Quality Control
(Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C163 - EPA 1657 (Continued)										
LCS (B25C163-BS1)				Prepared: 03/12/25 08:55 Analyzed: 03/14/25 15:06						
Chlorpyrifos (2)	0.565		0.250	ug/L	1.00		56.5	48-150		
Demeton-o (2)	0.285		0.250	ug/L	1.00		28.5	16-150		
Demeton-s (2)	0.345		0.250	ug/L	1.00		34.5	16-150		
Diazinon (2)	0.605		0.250	ug/L	1.00		60.5	50-150		
ethyl-Parathion (2)	0.600		0.250	ug/L	1.00		60.0	50-150		
Malathion (2)	0.745		0.250	ug/L	1.00		74.5	50-150		
methyl Azinphos (Guthion) (2)	0.490		0.250	ug/L	1.00		49.0	37-150		
Matrix Spike (B25C163-MS1)	**Source: 25C0254-02**			Prepared: 03/12/25 08:55 Analyzed: 03/14/25 15:27						
Chlorpyrifos (2)	1.34		0.500	ug/L	2.00	ND	67.0	25-150		
Demeton-o (2)	0.910		0.500	ug/L	2.00	ND	45.5	25-150		
Demeton-s (2)	0.880		0.500	ug/L	2.00	ND	44.0	25-150		
Diazinon (2)	1.70		0.500	ug/L	2.00	0.362	66.9	25-150		
ethyl-Parathion (2)	1.47		0.500	ug/L	2.00	ND	73.5	25-150		
Malathion (2)	1.90		0.500	ug/L	2.00	ND	95.0	25-150		
methyl Azinphos (Guthion) (2)	1.57		0.500	ug/L	2.00	ND	78.5	25-150		
Matrix Spike Dup (B25C163-MSD1)	**Source: 25C0254-02**			Prepared: 03/12/25 08:55 Analyzed: 03/14/25 15:49						
Chlorpyrifos (2)	1.06		0.500	ug/L	2.00	ND	53.0	25-150	23.3	200
Demeton-o (2)	ND	MS1	0.500	ug/L	2.00	ND		25-150		200
Demeton-s (2)	0.0700	MS1, J	0.500	ug/L	2.00	ND	3.50	25-150	171	200
Diazinon (2)	0.550	MS1	0.500	ug/L	2.00	0.362	9.41	25-150	102	200
ethyl-Parathion (2)	0.580		0.500	ug/L	2.00	ND	29.0	25-150	86.8	200
Malathion (2)	0.590		0.500	ug/L	2.00	ND	29.5	25-150	105	200
methyl Azinphos (Guthion) (2)	1.54		0.500	ug/L	2.00	ND	77.0	25-150	1.93	200

Quality Control
(Continued)

Volatile Organics

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C112 - EPA 624.1										
Blank (B25C112-BLK1)			Prepared: 03/07/25 15:48 Analyzed: 03/07/25 15:48							
1,1,1-Trichloroethane	ND		5.00	ug/L						
1,1,2,2-Tetrachloroethane	ND		5.00	ug/L						
1,1,2-Trichloroethane	ND		5.00	ug/L						
1,1-Dichloroethane	ND		5.00	ug/L						
1,1-Dichloroethene	ND		5.00	ug/L						
1,2-Dibromoethane	ND		5.00	ug/L						
1,2-Dichlorobenzene	ND		5.00	ug/L						
1,2-Dichloroethane	ND		5.00	ug/L						
1,2-Dichloropropane	ND		5.00	ug/L						
1,3-Dichlorobenzene	ND		5.00	ug/L						
1,4-Dichlorobenzene	ND		5.00	ug/L						
2-Butanone	ND		10.0	ug/L						
2-Chloroethyl vinyl ether	ND		5.00	ug/L						
Acrolein	ND		5.00	ug/L						
Acrylonitrile	ND		5.00	ug/L						
Benzene	ND		5.00	ug/L						
Bromodichloromethane	ND		5.00	ug/L						
Bromoform	ND		5.00	ug/L						
Bromomethane	ND		5.00	ug/L						
Carbon Disulfide	ND		5.00	ug/L						
Carbon Tetrachloride	ND		5.00	ug/L						
Chlorobenzene	ND		5.00	ug/L						
Chloroethane	ND		5.00	ug/L						
Chloroform	ND		4.00	ug/L						
chloromethane	ND		5.00	ug/L						
cis-1,2-Dichloroethene	ND		5.00	ug/L						
cis-1,3-Dichloropropene	ND		5.00	ug/L						
Dibromochloromethane	ND		5.00	ug/L						
Epichlorohydrin	ND		25.0	ug/L						
Ethylbenzene	ND		5.00	ug/L						
m+p-Xylene	ND		10.0	ug/L						
Methylene Chloride	ND		5.00	ug/L						
Methyl-tert-butyl ether (MTBE)	ND		5.00	ug/L						
o-Xylene	ND		5.00	ug/L						
Styrene	ND		5.00	ug/L						
Tetrachloroethene	ND		5.00	ug/L						
Toluene	1.13	J	5.00	ug/L						
trans-1,2-Dichloroethene	ND		4.00	ug/L						
trans-1,3-Dichloropropene	ND		5.00	ug/L						
Trichloroethene	ND		5.00	ug/L						
Vinyl acetate	ND		5.00	ug/L						
Vinyl chloride	ND		5.00	ug/L						
Xylenes, Total	ND		5.00	ug/L						
Total Trihalomethanes	ND		5.00	ug/L						
1,3-Dichloropropene, Total	ND		5.00	ug/L						

Quality Control
(Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C112 - EPA 624.1 (Continued)										
LCS (B25C112-BS1)				Prepared: 03/07/25 14:52 Analyzed: 03/07/25 14:52						
1,1,1-Trichloroethane	23.2			ug/L	20.0		116	70-130		
1,1,2,2-Tetrachloroethane	22.3			ug/L	20.0		112	60-140		
1,1,2-Trichloroethane	22.3			ug/L	20.0		112	70-130		
1,1-Dichloroethane	23.0			ug/L	20.0		115	70-130		
1,1-Dichloroethene	20.6			ug/L	20.0		103	50-150		
1,2-Dibromoethane	22.1			ug/L	20.0		110	72-118		
1,2-Dichlorobenzene	22.8			ug/L	20.0		114	65-135		
1,2-Dichloroethane	21.8			ug/L	20.0		109	70-130		
1,2-Dichloropropane	23.7			ug/L	20.0		119	35-165		
1,3-Dichlorobenzene	23.3			ug/L	20.0		116	70-130		
1,4-Dichlorobenzene	23.0			ug/L	20.0		115	65-135		
2-Butanone	42.3			ug/L	40.0		106	34-150		
2-Chloroethyl vinyl ether	20.7			ug/L	20.0		103	0-225		
Acrolein	13.2			ug/L	20.0		66.1	60-140		
Acrylonitrile	20.9			ug/L	20.0		104	60-140		
Benzene	23.2			ug/L	20.0		116	65-135		
Bromodichloromethane	23.8			ug/L	20.0		119	65-135		
Bromoform	21.9			ug/L	20.0		109	70-130		
Bromomethane	31.1			ug/L	20.0		155	15-185		
Carbon Disulfide	19.4			ug/L	20.0		96.8	40-149		
Carbon Tetrachloride	21.8			ug/L	20.0		109	70-130		
Chlorobenzene	22.3			ug/L	20.0		112	65-135		
Chloroethane	19.0			ug/L	20.0		95.0	40-160		
Chloroform	23.0			ug/L	20.0		115	70-135		
chloromethane	18.1			ug/L	20.0		90.4	0-205		
cis-1,2-Dichloroethene	22.2			ug/L	20.0		111	74-122		
cis-1,3-Dichloropropene	23.9			ug/L	20.0		120	25-175		
Dibromochloromethane	23.0			ug/L	20.0		115	70-135		
Epichlorohydrin	106			ug/L	100		106	49-141		
Ethylbenzene	22.0			ug/L	20.0		110	60-140		
m+p-Xylene	43.6			ug/L	40.0		109	73-121		
Methylene Chloride	20.4			ug/L	20.0		102	60-140		
Methyl-tert-butyl ether (MTBE)	23.1			ug/L	20.0		116	55-135		
o-Xylene	22.0			ug/L	20.0		110	63-139		
Styrene	22.7			ug/L	20.0		113	69-124		
Tetrachloroethene	21.7			ug/L	20.0		109	70-130		
Toluene	23.8	B		ug/L	20.0		119	70-130		
trans-1,2-Dichloroethene	21.5			ug/L	20.0		108	70-130		
trans-1,3-Dichloropropene	22.6			ug/L	20.0		113	50-150		
Trichloroethene	23.8			ug/L	20.0		119	65-135		
Vinyl acetate	18.7			ug/L	20.0		93.4	30-168		
Vinyl chloride	18.3			ug/L	20.0		91.7	5-195		

Quality Control
(Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C112 - EPA 624.1 (Continued)										
LCS Dup (B25C112-BSD1)				Prepared: 03/07/25 15:20 Analyzed: 03/07/25 15:20						
1,1,1-Trichloroethane	22.9			ug/L	20.0		114	70-130	1.52	200
1,1,2,2-Tetrachloroethane	21.8			ug/L	20.0		109	60-140	2.18	200
1,1,2-Trichloroethane	21.9			ug/L	20.0		110	70-130	1.76	200
1,1-Dichloroethane	22.6			ug/L	20.0		113	70-130	1.75	200
1,1-Dichloroethene	20.1			ug/L	20.0		101	50-150	2.31	200
1,2-Dibromoethane	21.7			ug/L	20.0		109	72-118	1.46	200
1,2-Dichlorobenzene	23.4			ug/L	20.0		117	65-135	2.60	200
1,2-Dichloroethane	22.0			ug/L	20.0		110	70-130	0.957	200
1,2-Dichloropropane	23.4			ug/L	20.0		117	35-165	1.23	200
1,3-Dichlorobenzene	24.2			ug/L	20.0		121	70-130	3.79	200
1,4-Dichlorobenzene	23.7			ug/L	20.0		119	65-135	3.30	200
2-Butanone	38.0			ug/L	40.0		95.0	34-150	10.6	200
2-Chloroethyl vinyl ether	19.9			ug/L	20.0		99.3	0-225	4.00	200
Acrolein	12.9			ug/L	20.0		64.5	60-140	2.45	200
Acrylonitrile	19.7			ug/L	20.0		98.4	60-140	5.92	200
Benzene	23.1			ug/L	20.0		116	65-135	0.302	200
Bromodichloromethane	23.3			ug/L	20.0		116	65-135	2.00	200
Bromoform	21.3			ug/L	20.0		106	70-130	2.78	200
Bromomethane	31.7			ug/L	20.0		158	15-185	1.98	200
Carbon Disulfide	19.2			ug/L	20.0		95.8	40-149	0.987	200
Carbon Tetrachloride	21.3			ug/L	20.0		106	70-130	2.50	200
Chlorobenzene	22.5			ug/L	20.0		112	65-135	0.670	200
Chloroethane	19.4			ug/L	20.0		97.2	40-160	2.24	200
Chloroform	23.0			ug/L	20.0		115	70-135	0.131	200
chloromethane	18.0			ug/L	20.0		89.9	0-205	0.499	200
cis-1,2-Dichloroethene	22.3			ug/L	20.0		112	74-122	0.359	200
cis-1,3-Dichloropropene	23.5			ug/L	20.0		118	25-175	1.81	200
Dibromochloromethane	22.4			ug/L	20.0		112	70-135	2.59	200
Epichlorohydrin	90.8			ug/L	100		90.8	49-141	15.3	200
Ethylbenzene	22.3			ug/L	20.0		112	60-140	1.44	200
m+p-Xylene	44.4			ug/L	40.0		111	73-121	1.75	200
Methylene Chloride	20.4			ug/L	20.0		102	60-140	0.147	200
Methyl-tert-butyl ether (MTBE)	22.4			ug/L	20.0		112	55-135	3.16	200
o-Xylene	22.4			ug/L	20.0		112	63-139	1.53	200
Styrene	23.0			ug/L	20.0		115	69-124	1.62	200
Tetrachloroethene	22.2			ug/L	20.0		111	70-130	2.32	200
Toluene	24.3	B		ug/L	20.0		122	70-130	2.04	200
trans-1,2-Dichloroethene	21.3			ug/L	20.0		107	70-130	0.934	200
trans-1,3-Dichloropropene	21.9			ug/L	20.0		109	50-150	3.15	200
Trichloroethene	23.8			ug/L	20.0		119	65-135	0.294	200
Vinyl acetate	18.2			ug/L	20.0		91.0	30-168	2.60	200
Vinyl chloride	18.0			ug/L	20.0		89.9	5-195	1.98	200

Quality Control
(Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C112 - EPA 624.1 (Continued)										
Matrix Spike (B25C112-MS1)	**Source: 25C0254-01**			Prepared: 03/07/25 16:44	Analyzed: 03/07/25 16:44					
1,1,1-Trichloroethane	22.3			ug/L	20.0	0.00	112	52-162		
1,1,2,2-Tetrachloroethane	21.4			ug/L	20.0	0.00	107	46-157		
1,1,2-Trichloroethane	22.4			ug/L	20.0	0.00	112	52-150		
1,1-Dichloroethane	22.3			ug/L	20.0	0.00	112	59-155		
1,1-Dichloroethene	19.6			ug/L	20.0	0.00	98.2	0-234		
1,2-Dibromoethane	22.0			ug/L	20.0	0.00	110	62-128		
1,2-Dichlorobenzene	22.0			ug/L	20.0	0.00	110	18-190		
1,2-Dichloroethane	22.0			ug/L	20.0	0.00	110	49-155		
1,2-Dichloropropane	23.4			ug/L	20.0	0.00	117	0-210		
1,3-Dichlorobenzene	22.3			ug/L	20.0	0.00	111	59-156		
1,4-Dichlorobenzene	22.1			ug/L	20.0	0.00	111	18-190		
2-Butanone	40.1			ug/L	40.0	1.08	97.5	10-203		
2-Chloroethyl vinyl ether	20.1			ug/L	20.0	0.00	100	0-305		
Acrolein	1.67	MS3		ug/L	20.0	0.00	8.35	40-160		
Acrylonitrile	19.5			ug/L	20.0	0.00	97.3	40-160		
Benzene	22.8			ug/L	20.0	0.00	114	37-151		
Bromodichloromethane	38.5			ug/L	20.0	14.7	119	35-155		
Bromoform	21.5			ug/L	20.0	0.00	107	45-169		
Bromomethane	29.1			ug/L	20.0	0.00	145	0-242		
Carbon Disulfide	18.0			ug/L	20.0	0.00	90.2	32-152		
Carbon Tetrachloride	20.5			ug/L	20.0	0.00	103	70-140		
Chlorobenzene	22.0			ug/L	20.0	0.00	110	37-160		
Chloroethane	18.1			ug/L	20.0	0.00	90.7	14-230		
Chloroform	64.3			ug/L	20.0	41.9	112	51-138		
chloromethane	17.5			ug/L	20.0	0.00	87.6	0-273		
cis-1,2-Dichloroethene	21.9			ug/L	20.0	0.00	109	63-135		
cis-1,3-Dichloropropene	23.0			ug/L	20.0	0.00	115	0-227		
Dibromochloromethane	26.6			ug/L	20.0	3.76	114	53-149		
Epichlorohydrin	89.5			ug/L	100	0.00	89.5	31-154		
Ethylbenzene	21.7			ug/L	20.0	0.00	108	37-162		
m+p-Xylene	42.7			ug/L	40.0	0.00	107	61-130		
Methylene Chloride	19.7			ug/L	20.0	0.00	98.3	0-221		
Methyl-tert-butyl ether (MTBE)	22.8			ug/L	20.0	0.00	114	49-145		
o-Xylene	21.7			ug/L	20.0	0.00	108	62-128		
Styrene	22.4			ug/L	20.0	0.00	112	53-136		
Tetrachloroethene	20.7			ug/L	20.0	0.00	104	64-148		
Toluene	23.6	B		ug/L	20.0	1.76	109	47-150		
trans-1,2-Dichloroethene	20.8			ug/L	20.0	0.00	104	54-156		
trans-1,3-Dichloropropene	22.3			ug/L	20.0	0.00	112	17-183		
Trichloroethene	23.1			ug/L	20.0	0.00	116	70-157		
Vinyl acetate	18.2			ug/L	20.0	0.00	90.8	10-193		
Vinyl chloride	17.4			ug/L	20.0	0.00	86.8	0-251		

Quality Control
(Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C112 - EPA 624.1 (Continued)										
Matrix Spike Dup (B25C112-MSD1)	**Source: 25C0254-01**			Prepared: 03/07/25 17:12	Analyzed: 03/07/25 17:12					
1,1,1-Trichloroethane	21.2			ug/L	20.0	0.00	106	52-162	5.43	36
1,1,2,2-Tetrachloroethane	21.6			ug/L	20.0	0.00	108	46-157	1.30	61
1,1,2-Trichloroethane	22.7			ug/L	20.0	0.00	114	52-150	1.46	45
1,1-Dichloroethane	22.2			ug/L	20.0	0.00	111	59-155	0.449	40
1,1-Dichloroethene	18.0			ug/L	20.0	0.00	90.2	0-234	8.54	32
1,2-Dibromoethane	22.6			ug/L	20.0	0.00	113	62-128	2.60	35
1,2-Dichlorobenzene	22.3			ug/L	20.0	0.00	112	18-190	1.44	57
1,2-Dichloroethane	22.4			ug/L	20.0	0.00	112	49-155	1.71	49
1,2-Dichloropropane	23.7			ug/L	20.0	0.00	119	0-210	1.27	55
1,3-Dichlorobenzene	22.6			ug/L	20.0	0.00	113	59-156	1.69	43
1,4-Dichlorobenzene	22.4			ug/L	20.0	0.00	112	18-190	1.12	57
2-Butanone	39.5			ug/L	40.0	1.08	96.0	10-203	1.48	30
2-Chloroethyl vinyl ether	20.9			ug/L	20.0	0.00	104	0-305	3.96	71
Acrolein	1.76	MS3		ug/L	20.0	0.00	8.80	40-160		60
Acrylonitrile	19.6			ug/L	20.0	0.00	98.0	40-160	0.717	60
Benzene	22.7			ug/L	20.0	0.00	113	37-151	0.703	61
Bromodichloromethane	38.8			ug/L	20.0	14.7	121	35-155	0.853	56
Bromoform	22.2			ug/L	20.0	0.00	111	45-169	3.16	42
Bromomethane	29.6			ug/L	20.0	0.00	148	0-242	1.67	61
Carbon Disulfide	17.0			ug/L	20.0	0.00	84.9	32-152	6.00	35
Carbon Tetrachloride	19.0			ug/L	20.0	0.00	95.1	70-140	7.54	41
Chlorobenzene	22.0			ug/L	20.0	0.00	110	37-160	0.0908	53
Chloroethane	18.0			ug/L	20.0	0.00	89.9	14-230	0.886	78
Chloroform	64.1			ug/L	20.0	41.9	111	51-138	0.296	54
chloromethane	17.1			ug/L	20.0	0.00	85.4	0-273	2.48	60
cis-1,2-Dichloroethene	21.8			ug/L	20.0	0.00	109	63-135	0.458	35
cis-1,3-Dichloropropene	23.4			ug/L	20.0	0.00	117	0-227	1.64	58
Dibromochloromethane	27.1			ug/L	20.0	3.76	117	53-149	1.98	50
Epichlorohydrin	98.4			ug/L	100	0.00	98.4	31-154	9.44	32
Ethylbenzene	21.3			ug/L	20.0	0.00	106	37-162	1.86	63
m+p-Xylene	42.3			ug/L	40.0	0.00	106	61-130	1.08	35
Methylene Chloride	19.8			ug/L	20.0	0.00	99.2	0-221	0.861	28
Methyl-tert-butyl ether (MTBE)	23.4			ug/L	20.0	0.00	117	49-145	2.51	35
o-Xylene	21.8			ug/L	20.0	0.00	109	62-128	0.460	35
Styrene	22.6			ug/L	20.0	0.00	113	53-136	0.800	35
Tetrachloroethene	20.0			ug/L	20.0	0.00	100	64-148	3.53	39
Toluene	23.1	B		ug/L	20.0	1.76	107	47-150	2.22	41
trans-1,2-Dichloroethene	20.1			ug/L	20.0	0.00	101	54-156	2.98	45
trans-1,3-Dichloropropene	22.6			ug/L	20.0	0.00	113	17-183	1.03	86
Trichloroethene	22.2			ug/L	20.0	0.00	111	70-157	4.02	48
Vinyl acetate	18.8			ug/L	20.0	0.00	94.0	10-193	3.46	39
Vinyl chloride	15.8			ug/L	20.0	0.00	79.0	0-251	9.40	66

Quality Control
(Continued)

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C082 - SM 5210 B										
Blank (B25C082-BLK1)				Prepared: 03/07/25 09:00 Analyzed: 03/12/25 10:18						
Biochemical Oxygen Demand, Carbonaceous	ND	BOD t	2.00	mg/L						
LCS (B25C082-BS1)				Prepared: 03/07/25 09:00 Analyzed: 03/12/25 10:26						
Biochemical Oxygen Demand, Carbonaceous	146	BOD G, BOD t	100	mg/L	198		73.8	85-115		
Duplicate (B25C082-DUP1)	**Source: 25C0220-01**			Prepared: 03/07/25 09:00 Analyzed: 03/12/25 10:24						
Biochemical Oxygen Demand, Carbonaceous	41.9	BOD t	75.0	mg/L		36.7			13.4	30
Duplicate (B25C082-DUP2)	**Source: 25C0241-01**			Prepared: 03/07/25 09:00 Analyzed: 03/12/25 10:59						
Biochemical Oxygen Demand, Carbonaceous	78.2	BOD t	60.0	mg/L		66.5			16.2	30
Batch: B25C095 - EPA 300.0										
Blank (B25C095-BLK1)				Prepared: 03/07/25 10:02 Analyzed: 03/07/25 10:02						
Chloride	ND		0.400	mg/L						
Fluoride	ND		0.100	mg/L						
Nitrate as N	ND		0.100	mg/L						
Sulfate	ND		0.400	mg/L						
LCS (B25C095-BS1)				Prepared: 03/07/25 10:18 Analyzed: 03/07/25 10:18						
Chloride	7.44			mg/L	7.50		99.2	90-110		
Fluoride	2.57			mg/L	2.50		103	90-110		
Nitrate as N	4.90			mg/L	5.00		97.9	90-110		
Sulfate	7.37			mg/L	7.50		98.3	90-110		
Matrix Spike (B25C095-MS1)	**Source: 25B0834-01**			Prepared: 03/07/25 11:56 Analyzed: 03/07/25 11:56						
Chloride	132		4.21	mg/L	78.9	50.8	103	90-110		
Nitrate as N	52.7		1.05	mg/L	52.6	1.09	98.0	90-110		
Sulfate	119		4.21	mg/L	78.9	39.4	101	90-110		

Quality Control
(Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C095 - EPA 300.0 (Continued)										
Matrix Spike (B25C095-MS2)	**Source: 25C0247-01**		Prepared: 03/07/25 15:54			Analyzed: 03/07/25 15:54				
Chloride	197		4.21	mg/L	78.9	116	102	90-110		
Fluoride	26.6		1.05	mg/L	26.3	ND	101	90-110		
Nitrate as N	72.2		1.05	mg/L	52.6	19.2	101	90-110		
Sulfate	157		4.21	mg/L	78.9	75.2	103	90-110		
Matrix Spike Dup (B25C095-MSD1)	**Source: 25B0834-01**		Prepared: 03/07/25 12:13			Analyzed: 03/07/25 12:13				
Chloride	131		4.21	mg/L	78.9	50.8	102	90-110	0.946	15
Nitrate as N	52.7		1.05	mg/L	52.6	1.09	98.1	90-110	0.106	15
Sulfate	119		4.21	mg/L	78.9	39.4	101	90-110	0.354	15
Matrix Spike Dup (B25C095-MSD2)	**Source: 25C0247-01**		Prepared: 03/07/25 16:10			Analyzed: 03/07/25 16:10				
Chloride	196		4.21	mg/L	78.9	116	101	90-110	0.166	15
Fluoride	26.8		1.05	mg/L	26.3	ND	102	90-110	0.718	15
Nitrate as N	72.1		1.05	mg/L	52.6	19.2	101	90-110	0.0627	15
Sulfate	157		4.21	mg/L	78.9	75.2	103	90-110	0.0524	15
Batch: B25C099 - SM 2540 C										
Blank (B25C099-BLK1)			Prepared: 03/07/25 13:05			Analyzed: 03/10/25 13:45				
Total Dissolved Solids	ND		5.0	mg/L						
LCS (B25C099-BS1)			Prepared: 03/07/25 13:05			Analyzed: 03/10/25 13:45				
Total Dissolved Solids	151			mg/L	150		101	85-115		
Duplicate (B25C099-DUP1)	**Source: 25C0247-01**		Prepared: 03/07/25 13:05			Analyzed: 03/10/25 13:45				
Total Dissolved Solids	590		5.0	mg/L		582			1.37	10

Quality Control
(Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C124 - OIA 1677										
Blank (B25C124-BLK1)				Prepared: 03/10/25 08:24 Analyzed: 03/18/25 13:08						
Cyanide, Total	ND		5.00	ug/L						
Cyanide, Amenable	ND		2.00	ug/L						
LCS (B25C124-BS1)				Prepared: 03/10/25 08:24 Analyzed: 03/18/25 13:13						
Cyanide, Total	41.1			ug/L	40.0		103	84-116		
Cyanide, Amenable	21.1			ug/L	20.0		105	82-132		
LCS Dup (B25C124-BSD1)				Prepared: 03/10/25 08:24 Analyzed: 03/18/25 13:19						
Cyanide, Total	42.0			ug/L	40.0		105	84-116	2.24	200
Cyanide, Amenable	20.4			ug/L	20.0		102	82-132	3.45	200
Duplicate (B25C124-DUP1)	**Source: 25C0253-03**			Prepared: 03/10/25 08:24 Analyzed: 03/18/25 14:03						
Cyanide, Total	5.59		5.00	ug/L		6.43			13.8	47
Cyanide, Amenable	4.89		2.00	ug/L		4.77			2.41	15
Matrix Spike (B25C124-MS1)	**Source: 25C0253-03**			Prepared: 03/10/25 08:24 Analyzed: 03/18/25 14:08						
Cyanide, Amenable	25.7		2.00	ug/L	20.0	4.77	104	82-130		
Cyanide, Total	26.3		5.00	ug/L	20.0	6.43	99.2	64-136		
Matrix Spike Dup (B25C124-MSD1)	**Source: 25C0253-03**			Prepared: 03/10/25 08:24 Analyzed: 03/18/25 14:14						
Cyanide, Total	27.0		5.00	ug/L	20.0	6.43	103	64-136	2.62	47
Cyanide, Amenable	25.4		2.00	ug/L	20.0	4.77	103	82-130	0.857	11
Batch: B25C128 - SM 4500-N ORG B										
Blank (B25C128-BLK1)				Prepared: 03/10/25 09:00 Analyzed: 03/11/25 08:45						
Total Kjeldahl Nitrogen	ND		0.500	mg/L						

Quality Control
(Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C128 - SM 4500-N ORG B (Continued)										
LCS (B25C128-BS1)				Prepared: 03/10/25 09:00 Analyzed: 03/11/25 08:45						
Total Kjeldahl Nitrogen	2.72		0.500	mg/L	3.00		90.7	85-115		
Duplicate (B25C128-DUP1)	**Source: 25C0152-02**			Prepared: 03/10/25 09:00 Analyzed: 03/11/25 08:45						
Total Kjeldahl Nitrogen	1.20		0.500	mg/L		1.08			10.5	20
Matrix Spike (B25C128-MS1)	**Source: 25C0152-02**			Prepared: 03/10/25 09:00 Analyzed: 03/11/25 08:45						
Total Kjeldahl Nitrogen	4.38		0.500	mg/L	3.00	1.08	110	70-130		
Reference (B25C128-SRM1)				Prepared: 03/10/25 09:00 Analyzed: 03/11/25 08:45						
Total Kjeldahl Nitrogen	2.95			mg/L	3.00		98.3	90-110		
Batch: B25C129 - EPA 350.1										
Blank (B25C129-BLK1)				Prepared: 03/10/25 12:07 Analyzed: 03/10/25 12:07						
Ammonia as N	ND		0.0500	mg/L						
LCS (B25C129-BS1)				Prepared: 03/10/25 13:38 Analyzed: 03/10/25 13:38						
Ammonia as N	0.947			mg/L	1.00		94.7	90-110		
Matrix Spike (B25C129-MS1)	**Source: 25C0183-02RE1**			Prepared: 03/10/25 12:13 Analyzed: 03/10/25 12:13						
Ammonia as N	1.06		0.0500	mg/L	1.00	0.0502	101	90-110		
Matrix Spike (B25C129-MS2)	**Source: 25C0190-02RE1**			Prepared: 03/10/25 12:21 Analyzed: 03/10/25 12:21						
Ammonia as N	1.08		0.0500	mg/L	1.00	0.0496	103	90-110		
Matrix Spike Dup (B25C129-MSD1)	**Source: 25C0183-02RE1**			Prepared: 03/10/25 12:16 Analyzed: 03/10/25 12:16						
Ammonia as N	1.12		0.0500	mg/L	1.00	0.0502	107	90-110	5.57	10

Quality Control
(Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C129 - EPA 350.1 (Continued)										
Matrix Spike Dup (B25C129-MSD2)	**Source: 25C0190-02RE1**			Prepared: 03/10/25 13:40		Analyzed: 03/10/25 13:40				
Ammonia as N	1.11		0.0500	mg/L	1.00	0.0496	106	90-110	2.24	10
Batch: B25C136 - SM 2540 D, E										
Blank (B25C136-BLK1)				Prepared: 03/10/25 12:14		Analyzed: 03/11/25 09:53				
Total Suspended Solids	ND		2.0	mg/L						
LCS (B25C136-BS1)				Prepared: 03/10/25 12:14		Analyzed: 03/11/25 09:53				
Total Suspended Solids	19.2			mg/L	20.1		95.5	85-115		
Duplicate (B25C136-DUP1)	**Source: 25C0322-01**			Prepared: 03/10/25 12:14		Analyzed: 03/11/25 09:53				
Total Suspended Solids	7400		2000	mg/L		7500			1.34	10
Duplicate (B25C136-DUP2)	**Source: 25C0324-01**			Prepared: 03/10/25 12:14		Analyzed: 03/11/25 09:53				
Total Suspended Solids	650		100	mg/L		665			2.28	10
Batch: B25C174 - SM 2320										
Blank (B25C174-BLK1)				Prepared: 03/12/25 10:57		Analyzed: 03/12/25 10:57				
Total Alkalinity as CaCO3	ND		20.0	mg/L						
Blank (B25C174-BLK2)				Prepared: 03/12/25 11:28		Analyzed: 03/12/25 11:28				
Total Alkalinity as CaCO3	ND		20.0	mg/L						
LCS (B25C174-BS1)				Prepared: 03/12/25 10:49		Analyzed: 03/12/25 10:49				
Total Alkalinity as CaCO3	150			mg/L	150		99.7	90-110		

Quality Control
(Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C174 - SM 2320 (Continued)										
LCS (B25C174-BS2)				Prepared: 03/12/25 11:21	Analyzed: 03/12/25 11:21					
Total Alkalinity as CaCO3	149			mg/L	150		99.6	90-110		
Duplicate (B25C174-DUP1)	**Source: 25C0254-02**			Prepared: 03/12/25 11:07	Analyzed: 03/12/25 11:07					
Total Alkalinity as CaCO3	128		20.0	mg/L		128			0.313	10
Reference (B25C174-SRM1)				Prepared: 03/12/25 11:14	Analyzed: 03/12/25 11:14					
Total Alkalinity as CaCO3	51.0			mg/L	50.0		102	90-110		

Quality Control
(Continued)

Microbiology

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B25C107 - Colilert										
Blank (B25C107-BLK1)			Prepared: 03/07/25 10:41		Analyzed: 03/08/25 12:16					
E.coli	ND		1	MPN/100mL						
Duplicate (B25C107-DUP1)	**Source: 25C0263-02**		Prepared: 03/07/25 10:41		Analyzed: 03/08/25 12:16					
E.coli	ND		1	MPN/100mL		ND				50
Duplicate (B25C107-DUP2)	**Source: 25C0278-02**		Prepared: 03/07/25 10:41		Analyzed: 03/08/25 12:16					
E.coli	ND		1	MPN/100mL		2				50
Reference (B25C107-SRM1)			Prepared: 03/07/25 10:41		Analyzed: 03/08/25 12:16					
E.coli	133			MPN/100mL	173		77.1	50-150		
Reference (B25C107-SRM2)			Prepared: 03/07/25 10:41		Analyzed: 03/08/25 12:16					
E.coli	0			MPN/100mL	0.00			0-0		

Notes and Definitions

Item	Definition
B	The analyte was found in the associated Blank as well as in the sample.
B 10x	Blanks contained target analytes above the MDL. Associated sample concentrations were greater than 10x the detect in the blank, therefore data have been reported.
B FLD	The Field and/or Equipment (Rinsate) Blank contained target compounds above the detection limit. Contamination from the sampling site, sample collection, or transportation is suspected as laboratory blanks met QC criteria. Data reported with narration.
BOD G	The GGA associated with this batch failed to meet method acceptance criteria.
BOD t	The temperature of the BOD incubator was outside of method criteria for all or part of the 5-day incubation period. Data have been qualified.
BS ND	Blank Spike recovered above acceptance limits. Associated samples were non-detect, therefore data have been reported.
BS Org	Blank Spike recovered outside of acceptance criteria for the selected compounds. These compounds have been identified as poor performing compounds for this method. Data have been reported.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
MS1	MS/MSD recovery was outside of acceptance criteria due to matrix interference.
MS3	MS/MSD recovery was outside of acceptance llimits. All other QC was acceptable, therefore data have been reported.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit

RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

CF

Company Name:	Turkey Creek Pollutant Monitoring
Address:	1147 Enclave Parkway Houston, TX 77077
Permit Number:	10495-109

Sampler: Aaron Hernandez, Jeffrey Farrell

IWS Sample Reason

[ ] Permit Requirement
[ ] Special Report
[ ] Other
[ ] Compliance Verification
[ ] POTW Permit Application

TC Full Scan + Permit

25C0254

Composite Info		
Sample ID:	25C0254-01	25C0254-02
Split Samples:	Yes No	Yes No
Number of bottles:	1 2 3 4 5 18	1 2 3 4 5 __
Sample Volume:	800 mL	mL
Sample Interval:	Flow min	min
Autosampler secured/locked:	Yes No N/A	Yes No N/A
Comp Temp(°C)	3.9	

AH

Field Test Traceability Info	
TRC ID:	03090C1104 43
Temperature ID:	TL74A012
pH Measured By:	Paper Meter
pH ID:	T2113810 84
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:
ND - No Discharge IQ - Insufficient Quantity CC - Company Closed EF - Equipment Failure Other (write in description)

*Matrix: W - Water, S - Solid, C - Chemical

Sample Identification	# Cont	Grab/ Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
25C0254-01	25	CMan	W	SP 2_CompMan	6:12 3/6/25	22:06 3/6/25	(1) 1 L Amber Glass, PTFE Lined Cap, NaOH to pH >10 Cool <6°C, NaOH to pH >10, NaAsO2 if TRC present	Cyanide OIA 1677 * [A] Cyanide D7511 [A]		D.O Sn: 2181007 64
							(16) 40 mL Glass, PTFE lined septum Cool <6°C AH	Mercury 1631E [B] VOA 624.1 △ [N]		
							(8) 40 mL Glass, PTFE lined septum, ~~HCl to pH <2 Cool <6°C, HCl to pH~~ <2	VOA 624.1 ▭ [N]		

* Collected as a 4 part grab 6:12, 11:09, 16:30, 22:06

△ Collected as a 4 part grab 6:12, 11:09, 16:30, 22:06

▭ Collected as a 4 part grab 6:12, 11:09, 16:30, 22:06

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
[signature]	3/7/25 1150		Edmund Hicks	3/07/25 1150	CoH
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location

CF

Company Name:	Turkey Creek Pollutant Monitoring
Address:	1147 Enclave Parkway Houston, TX 77077
Permit Number:	10495-109

Sampler: Aaron Hernandez, Jeffrey Fallell

IWS Sample Reason

[ ] Permit Requirement [ ] Compliance Verification
[ ] Special Report [✓] POTW Permit Application
[ ] Other

TC Full Scan + Permit

25C0254

Sample Identification	# Cont	Grab/ Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
25C0254-02	18	C	W	SP 2_Comp	8:00 03/06/25	8:10 ~~3/6/25~~ AH 3/7/25	(1) 1 Gallon Plastic Cool <6°C	TSS 2540 D [K]		
							(9) 1 L Amber Glass, PTFE Lined Cap, 0.008% Na2S2O3 Coo <6°C, 0.008% Na2S2O3	Pesticides 608.3 [A] Pesticides 1657 [D] BNA 625.1 [G]		
							(1) 1 L PE Cool <6°C	Nitrate as N 300.0 [R] Sulfate 300.0 [R] Chloride 300.0 [R] Fluoride 300.0 [R]		
							(2) 1 L PE or Glass Cool <6°C	TDS 2540 C [J] Alkalinity 2320 B [J] CBOD 5210 B [M]		
							(1) 100 mL PE, (NH4)2SO4 buffer, NaOH to pH 9.3-9.7 Cool <6°C, (NH4)2SO4 buffer, NaOH to pH 9.3-9.7	Chromium, Hexavalent 218.6 [P]		
							(3) 500 mL PE, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	NH3 as N 350.1 [L] TKN 4500-NH3 D [N] Phosphorus 200.7 [O]		
							(1) 500 mL PE, HNO3 to pH <2 Cool <6°C, HNO3 to pH <2	Metals WWTP Eff [Q]		
25C0254-03	1	G	W	SP 2_Grab	[redacted]	08:55 ~~3/6~~ AH 3/7/25	(1) 290 mL Sterile Plastic, 0.008% Na2S2O3 Cool <10°C, 0.008% Na2S2O3	Total Coliform and E.coli by Colilert [A]	DO (mg/L) 8.37 pH 7.77 Temp (°C) 22.10 TRC (mg/L) 0.03	Duplicate 8.43 7.69 22.40 0.02
25C0254-04	2	G	W	Field Blank	[redacted]	11:09 03/06/25	(1) 40 mL Glass, PTFE lined septum, HCl to pH <2 Cool <6°C	Mercury 1631E [A]		
							(1) 500 mL PE or Glass, HNO3 to pH <2 Cool <6°C, HNO3 to pH <2	Metals WWTP Eff [B]		

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
[signature]	3.7.25 1150		Edmund Hickl	3/07/25 1150	EOH
Relinquished by: (Signature)	**Date/Time**	**Location**	**Received by: (Signature)**	**Date/Time**	**Location**

Laboratory Analysis Report

Total Number of Pages: 32

Job ID : 25030719

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

Client Project Name :

Report To :

Client Name:	Houston, City of	P.O.#.:	
Attn:	Neranga Gamage	Sample Collected By:	Crescencio Fonseca
Client Address:	10500 Bellaire Blvd.	Date Collected:	03/07/25
City, State, Zip:	Houston, Texas, 77072		

Client Sample ID	Matrix	A&B Sample ID
5358272	Water	25030719.01
5358282	Water	25030719.03
5358312	Water	25030719.08

This analysis was subcontracted to :
SPL Kilgore Corporation, 2600 Dudley Rd.
Kilgore, Texas, 75662

Released By: Amanda Shute
Title: Project Manager
Date: 03/25/2025

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 : 03/07/2025 15:40

25.1.22116

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

Project
1139155

ABL2-G

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Printed 03/25/2025
7:44

TABLE OF CONTENTS

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

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
1139155

Printed 3/25/2025 Page 1 of 1
ww

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Sample	Sample ID	Taken	Time	Received
2388329	*5358312*	03/07/2025	08:00:00	03/11/2025

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Prepared Bottle: 2 mL Autosampler Vial (Batch 1164698) Volume: 5.00000 mL <== Derived from 01 (953 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 604.1	03	1164698	03/11/2025	1166915	03/16/2025

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

SPL The Science of Sure

ABL2-G

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Project
1139155

Printed: 03/25/2025

RESULTS

Sample Results

2388329 **5358312** Received: 03/11/2025

Non-Potable Water Collected by: Client A & B Labs PO: 54814 / 25030719
Taken: 03/07/2025 08:00:00

EPA 604.1 Prepared: 1164698 03/11/2025 14:00:00 Analyzed 1166915 03/16/2025 04:08:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<0.00262**	**mg/L**	0.00262		**70-30-4**	03

Sample Preparation

2388329 **5358312** Received: 03/11/2025

54814 / 25030719

03/07/2025

Prepared: 03/11/2025 11:30:47 Calculated 03/11/2025 11:30:47 CAL

z	**Enviro Fee (per Sampling Group)**	**Verified**

Prepared: 03/25/2025 07:44:00 Analyzed 03/25/2025 07:44:00 WJP

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

EPA 604.1 Prepared: 1164698 03/11/2025 14:00:00 Analyzed 1164698 03/11/2025 14:00:00 MCC

	Hexachlorophene Extraction	**5/953**	**ml**

01

EPA 604.1 Prepared: 1164698 03/11/2025 14:00:00 Analyzed 1166915 03/16/2025 04:08:00 BRU

	Hexachlorophene Expansion	**Entered**	**70-30-4**

03

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

ABL2-G

Project
1139155

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Printed: 03/25/2025

Qualifiers:

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

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

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

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

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

ABL2-G

A & B Labs
Shantall Carpenter
10100 East Freeway
Suite 100
Houston, TX 77029

Project
1139155

Printed 03/25/2025

Analytical Set 1166915 — EPA 604.1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexachlorophene	1164698	ND	0.890	2.50	ug/L	127438015

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Hexachlorophene	4970	5000	ug/L	99.4	70.0 - 130	127438014
Hexachlorophene	5030	5000	ug/L	101	70.0 - 130	127438021
Hexachlorophene	5040	5000	ug/L	101	70.0 - 130	127438023

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Hexachlorophene	1164698	28.9	39.2	50.0	25.5 - 145	57.8	78.4	ug/L	30.2	50.0

* 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.)

Email: Kilgore.ProjectManagement@spllabs.com

1139155 CoC Print Group 001 of 001

2388329

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: 5-7 BD**
Suite 100	Address: 2600 Dudley Road	Address: 10100 East Frwy Suite 100	WATCH HOLDING TIME
Houston, TX 77029	City: Kilgore, TX 75663	Houston, TX 77029	**Report - Std TAT**
713-453-6060	Contact: Skeeter Ludwig	Contact: Alisha Hughes/Amanda Shute	**PO# 54814 / 25030719**
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

Use only "Sample ID/Name" on final report. Lab #s given are for bottle identification purposes only. SHORT HOLD EXTRACTION - PLEASE WATCH HOLD TIME! SEND MDL REPORT

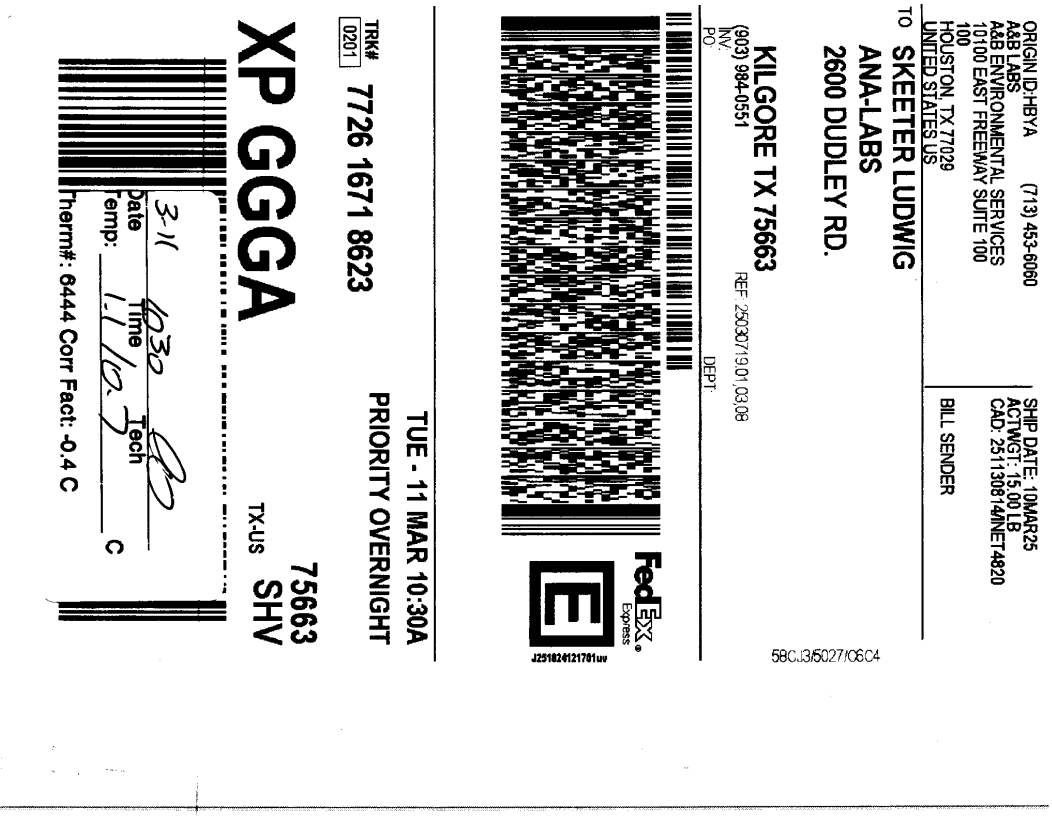
Lab #	Item	Sample ID / Name	Collection Date	Collection Time	Comp	Grab	Matrix	# of Containers	Container Types	Hexachlorophene					Container Type / Preservatives	Remarks:
															Container Type	
															Preservatives	
25030719.08	1	5358312	3/7/2025	8:00	X		W			X					Hexachlorophene: 10 ug/L	The following are the required detection limits:
	2															
	3															
	4	**Send a separate SubCOC per sample**														
	5															
	6															
	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

RETURN COOLERS via FedEx Ground 137195887 or Lonestar Ground 70081 Yes or No Initial:_____

Relinquished By:	Date	Time		Received By:	Date	Time
A Smith	3/10/25	17:00		FED EX		
FED EX	3-11-25	1030			3.11.25	1030

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.

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Turkey Creek Regional**
N. Eldridge/enclave Pkwy, Houston, TX

Location: **EFFLUENT**

Sample No. **5358312** Permit No. **5031** Outfall: **2** Scheduled Date: 3/7/2025

Sample Type: COMP Sample Matrix: Liquid

SAMPLE COLLECTED ✓ **Yes** ____ **No** If No: ____ No Discharge ____ Quantity Not Sufficient ____ Company Closed ____ Equipment Failure: ____

COMPOSITE TIME/DATE:
Begin: 08:00
End: 08:00
Begin Date: 3/6/25
End Date: 3/7/25

SAMPLE DETAILS: Temp: ____
Split Sample: ____ Yes ____ No
# of Bottles: 1 2 3 (4) 5 ___
Sample Volume: 9410 ml
Sample Interval: FLOW min.

GRAB TIME/DATE:
Time: ____:____
Date: ___/___/___
TRC ____, Lot #84032C
Temperature ____ °C, S/N ____

FIELD TESTS:
pH: ____.____
☐ Paper, Lot #____
☐ Meter, S/N ____

Autosampler Secured/Locked? ✓ **Yes** ____ **No** ____ **NA** **Sampler (Print):** Aaron Hernandez

Comments: ____

*	Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
0848	5358312-001	Bisphenol A (ASTM D7065-11 or 625); Nonylphenol (1625 or ASTM D7065)		1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	2
0850	5358312-004	Hexachlorophene (EPA 604.1)		1 L Amber Glass, PTFE lined cap	Cool <6°C	2
	LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ____ COH Wastewater Lab X City Contract Lab: A&B

Seals Intact: ____ **Yes** ✓ **No** 568 IR Thermometer S/N # 27910254 ___ S/N # 29650075 ___ Temp 1.7 °C Initial CM

pH Strip Manufacturer: ____ Lot #: ____ Initial: ____ IRT

Relinquished By: [signature] Date: 3/7/25 Time: 14.25

Received By: [signature] Date: 3/7/25 Time: 14.25

Relinquished By: [signature] Date: 3/7/25 Time: 15.40

Received By: [signature] Date: 3/7/25 Time: 15.40

Relinquished By: ____ Received By: ____ Date: ___/___/___ Time: ____.____

* Deliverd to Lab if Box is Checked

Sample Condition Checklist

A&B JobID : **25030719**	Date Received : **03/07/2025**	Time Received : **3:40PM**
Client Name : **Houston, City of**		
Temperature : **1.7**	Sample pH : **<2 Phenol**	
Thermometer ID : **IR7**	pH Paper ID : **125328**	
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 : CGMartinez

Received by : DGonzalez

Check in by/date : DGonzalez / 03/07/2025

ab-s005-1123

Attachment 10

Facility Operators

Technical Report 1.0, Section 8

TPDES Permit Number 10495-109
Turkey Creek

Facility Operations Chain-of-Command

		License Class	License Number	Expiration
Deputy Assistant Director:	Arturo Carillo			
Operations Manager:	Pedro Munive	A	WW0042189	05/20/2028
Assistant Operations Manager:	Damien Derousselle	A	WW0030514	4/12/2027
Operations Section Chief:	Lashandra Hall	A	WW0069971	6/22/2028
Plant Operator Supervisor:	David Green	B	WW0070620	8/26/2025

Attachment 11

WET Test Reports

Worksheet 5.0, Section 1
Worksheet 5.0, Section 3

Summary of WET Tests

Turkey Creek
10495-109 TX0035017

Test Initiation Date	Species	Lethal Endpoint	Sublethal Endpoint
1/20/2021	*Ceriodaphnia dubia*	>100	>100
1/20/2021	*Pimephales promelas*	>100	>100
4/13/2021	*Ceriodaphnia dubia*	>100	>100
4/13/2021	*Pimephales promelas*	>100	>100
7/20/2021	*Ceriodaphnia dubia*	>100	>100
7/20/2021	*Pimephales promelas*	>100	>100
10/12/2021	*Ceriodaphnia dubia*	>100	>100
10/12/2021	*Pimephales promelas*	>100	>100
1/11/2022	*Ceriodaphnia dubia*	>100	>100
1/11/2022	*Pimephales promelas*	>100	>100
7/12/2022	*Ceriodaphnia dubia*	>100	>100
1/10/2023	*Ceriodaphnia dubia*	>100	>100
1/10/2023	*Pimephales promelas*	>100	>100
7/11/2023	*Ceriodaphnia dubia*	>100	>100
1/9/2024	*Ceriodaphnia dubia*	>100	>100
1/9/2024	*Pimephales promelas*	>100	>100
7/23/2024	*Ceriodaphnia dubia*	>100	>100
1/28/2025	*Ceriodaphnia dubia*	>100	>100
1/28/2025	*Pimephales promelas*	>100	>100

Attachment 12

Effluent Parameters Above the MAL

Worksheet 6.0, Section 2.C.

Attachment 12

Table 6.0(1) - Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
Bromodichloromethane	14.7	10	ug/L	3/6/2025
Chloroform	41.9	10	ug/L	3/6/2025
Mercury	0.00523	0.005	ug/L	3/6/2025
Aluminum	20.6	2.5	ug/L	3/7/2025
Barium	145	3	ug/L	3/7/2025
Copper	5.97	2	ug/L	3/7/2025
Fluoride	949	500	ug/L	3/7/2025
Nitrogen as N	9780	100	Ug/l	3/7/2025

Candice Calhoun

From: Fragassi, Arielle - HPW <Arielle.Fragassi@houstontx.gov>
Sent: Tuesday, June 10, 2025 8:59 AM
To: Candice Calhoun
Cc: Samarneh, Walid - HPW
Subject: RE: Application to Renew Permit No. WQ0010495109 - Notice of Deficiency
Attachments: TC_AdminReview_NODResponse.pdf; Municipal Discharge Renewal Spanish NORI_10495109.docx

Good morning, Candice,

Please see the attached response.

Thank you,

Arielle Fragassi
Environmental Investigator IV
City of Houston | Houston Public Works
832.395.5755

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, June 3, 2025 12:05 PM
To: Samarneh, Walid - HPW <Walid.Samarneh@houstontx.gov>
Subject: Application to Renew Permit No. WQ0010495109 - Notice of Deficiency
Importance: High

Good afternoon, Mr. Samarneh,

The attached Notice of Deficiency (NOD) letter dated June 3, 2025, requests additional information needed to declare the application administratively complete. Please send complete response no later than June 17, 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

HOUSTON
PUBLIC WORKS

June 10, 2025

Candice Courville
Applications Review and Processing Team (MC 148)
Water Quality Division, Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

Subject: Turkey Creek Wastewater Treatment Facility
Application to renew TCEQ Permit Number: WQ0010495109, CN600128995, RN1016078363
Notice of Deficiency Letter dated June 03, 2025

Dear Ms. Courville,

A Notice of Deficiency letter outlining items that must be addressed before the above-referenced application can be declared administratively complete was received on June 03, 2025. Please accept the following responses.

1. The application will be available for viewing and copying at City of Houston, Department of Public Works and Engineering, 10500 Bellaire Boulevard, Houston, Texas as shown in the permit application.
2. Portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit has been reviewed, and no errors were found.
3. Spanish NORI
    a. Please see the attached Spanish version of the NORI.

Please contact me or Arielle Fragassi at 832-395-5755 or arielle.fragassi@houstontx.gov with any questions.

Sincerely,

Walid Samarneh

Walid Samarneh, P.E.
Managing Engineer
City of Houston, Houston Public Works

Attachment(s): Spanish NORI

F:\TurkeyCreek109\Permits\Applications\2025Renewal\AdminReview\TC_AdminReview_NODResponse.docx