



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

Attachment 1



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS **Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER**

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

City of South Houston (CN 600548390) operates South Houston Wastewater Treatment Plant, a POTW (RN 102986312), a domestic wastewater treatment plant. The facility is located at 306 Michigan Street, in South Houston, Harris County, Texas 77587. South Houston has applied for a permit renewal to discharge 4,000,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain BOD, TSS, Ammonia Nitrogen and Chlorine. The domestic wastewater is treated by grit removal, activated sludge process, clarification, disinfection by chlorine addition, dichlorination and finally exit by outfall. Sludge is captured, dewatered and hauled to a landfill.

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /**AGUAS PLUVIALES**

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

La Ciudad del Sur de Houston ((CN 600548390)) opera la Planta de Tratamiento de Aguas Residuales del Sur de Houston, (RN 102986312, una planta de tratamiento de aguas residuales domésticas. La instalación está ubicada en 306 Michigan Street, en el sur de Houston, Condado de Harris, Texas 77587. El sur de Houston ha solicitado la renovación de un permiso para descargar 4,000,000 de galones por día de aguas residuales domésticas tratadas..

Se espera que las descargas de la instalación contengan DBO, SST, nitrógeno amoniacal y cloro. Aguas residuales domésticas. ~~está~~ tratado por eliminación de arena, proceso de lodos activados, clarificación, desinfección por adición de cloro, dchloración y finalmente salida por emisario. Los lodos se capturan, se deshidratan y se transportan a un vertedero..

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010287001

APPLICATION. City of South Houston, P.O. Box 238, South Houston, Texas 77587, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010287001 (EPA I.D. No. TX0057304) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 4,000,000 gallons per day. The domestic wastewater treatment facility is located at 206 Michigan Street, in the city of South Houston, in Harris County, Texas 77587. The discharge route is from the plant site to Berry Bayou; thence to Sims Bayou; thence to Houston Ship Channel/Buffalo Bayou Tidal. TCEQ received this application on July 20, 2024. The permit application will be available for viewing and copying at South Houston City Hall, City Secretary's Office, 1018 Dallas Street, South 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=-95.236186,29.669743&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at:

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

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/cafo-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 South Houston at the address stated above or by calling Mr. Fred Gonzales, Water/Wastewater Superintendent, at 713-944-2027.

Issuance Date: August 2, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0010287001

SOLICITUD. La Ciudad del Sur de Houston 206 Michigan Street, South Houston, Texas 77587, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010287001 (Nº de identificación de la EPA. TX0057304) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 4,000,000 galones por día. La planta está ubicada 206 Michigan Street en el sur de Houston, en el Condado de Harris, Texas 77587, Texas. La ruta de descarga es del sitio de la planta a Pantano de bayas; de allí a Sims Bayou; de allí al Canal de Navegación de Houston/ Marea del Pantano de Búfalo. La TCEQ recibió esta solicitud el 20 de julio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en South Houston City Hall, 1018 Dallas Street, Sur de Houston, TX 77587 antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN 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 Ciudad del Sur de Houston a la dirección indicada arriba o llamando a Fred Gonzales al 713-944-2027.

Fecha de emission: 2 de agosto de 2024



1018 Dallas
South Houston, Texas 77587

CERTIFIED MAIL # 9589 0710 5270 1430 0305 34

July 11, 2024

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC 148)
P.O. Box 13087
Austin, Texas 78711-3087

Re: Permit Renewal City of South Houston, Texas Domestic POTW, Permit Expires 3-1-25,
Application Due 9-12-24, Permit # WQ0010287001.

Attached is the permit renewal application on the above referenced domestic wastewater treatment plant (POTW).

Should you have any questions, please contact our Water/Wastewater Superintendent Fred Gonzales at email sohowtp@yahoo.com, phone (713) 944-2027 or at the above address.

Sincerely;

Joe Soto, Mayor

cc: Fred Gonzales, South Houston Water/Wastewater Superintendent
Bob Hunt, B & B Consulting Group

Attachment: TCEQ domestic wastewater permit renewal QW0010287001

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP Waste Permit No: WQ0010287-001

1. Check or Money Order Number: 142273
2. Check or Money Order Amount: \$2,015.00
3. Date of Check or Money Order: 6/24/2024
4. Name on Check or Money Order: City of South Houston
5. APPLICATION INFORMATION

Name of Project or Site: City of South Houston WatewaterTreatment Plant

Physical Address of Project or Site: 206 Michigan Street, South Houston, Texas 77587/ Harris Co.

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

Staple Check or Money Order in This Space



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of South Houston

PERMIT NUMBER (If new, leave blank): WQ10287001

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

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Affected Landowners Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Core Data Form	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Buffer Zone Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Public Involvement Plan Form	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Original Photographs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 4.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 5.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 6.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PERMIT RENEWAL

CITY OF SOUTH HOUSTON TPDES # WQ0010287-001

DOMESTIC WASTEWATER PERMIT APPLICATION ATTACHMENTS INCLUDED

- **Attachments to Domestic wastewater permit application administrative report 1.0**

Attachment 1 - Plain Language Summary Form TCEQ -20972

Attachment 2 - SPIF (Supplemental Permit Information Form TCEQ-20971

Attachment 3 - USGS Map

Attachment 4 - Payment submittal Form Copy

- **Attachments to Domestic Technical Wastewater Permit Application Technical Report 1.0**

Attachment 5 – Process Flow Schematic

Attachment 6 – Property Boundary and Service Area Map

Attachment 7 – Laboratory report effluent analysis 8-17-23

Attachment 8 – Effluent Parameters above MAL last three years

Attachment 9 – Lab Results for Table 1.0(0) Pollutant Analysis for Wastewater Treatment Facilities



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 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input checked="" type="checkbox"/>

Minor Amendment (for any flow) \$150.00

Payment Information:

Mailed Check/Money Order Number: check # 142273

Check/Money Order Amount: \$2,015.00

Name Printed on Check: City of South 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 Wastewater Treatment

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

- Active
- Inactive

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

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

d. Check the box next to the appropriate application type

- | | |
|---|---|
| <input type="checkbox"/> New | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Modification of permit |
| <input checked="" type="checkbox"/> Renewal without changes | |

e. For amendments or modifications, describe the proposed changes: [Click to enter text.](#)

f. For existing permits:

Permit Number: WQ00 WQ10287001

EPA I.D. (TPDES only): TX 0057304

Expiration Date: 03/11/2025

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 South 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/crpublish/](http://www15.tceq.texas.gov/crpublish)

CN: 600548390

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: Soto Joe

Title: Mayor

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

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

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

[Click to enter text.](#)

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

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

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. Already in TCEQ data base, no changes required.

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: Gonzales Fred

Title: Water/Wastewater Superintendent

Credential: Click to enter text.

Organization Name: City of South Houston Public Works

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-

Phone No.: (713) 944-2027

E-mail Address: sohowwtp@yahoo.com

Check one or both:

Administrative Contact

Technical Contact

B. 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: 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: Gonzales Fred

Title: Water/Wastewater Superintendent

Credential: Click to enter text.

Organization Name: City of South Houston, Public Works, Water/Wastewater

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-

0238

Phone No.: (713) 944-2027

E-mail Address: sohowwtp@yahoo.com

B. Prefix: Mr.

Last Name, First Name: Avant Lance

Title: Finance Director

Credential: Click to enter text.

Organization Name: City of South Houston

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-0238

Phone No.: (713) 947-7700

E-mail Address: lavant@southhoustontx.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: Gonzales Fred

Title: Water/Wastewater Superintendent

Credential: Click to enter text.

Organization Name: City of South Houston, Public Works, Water/Wastewater

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-0238

Phone No.: (713) 944-2027

E-mail Address: sohowwtp@yahoo.com

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

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

Prefix: Mr.

Last Name, First Name: Gonzales Fred

Title: Water/Wastewater Superintendent

Credential: Click to enter text.

Organization Name: City of South Houston, Public Works, Water/Wastewater

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-0238

Phone No.: (713) 944-2027

E-mail Address: sohowwtp@yahoo.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr.

Last Name, First Name: Gonzales Fred

Title: Water/Wastewater Superintendent

Credential: Click to enter text.

Organization Name: City of South Houston, Public Works, Water/Wastewater

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587

0238

Phone No.: (713) 944-2027

E-mail Address: sohowtp@yahoo.com

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

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

- E-mail Address
- Fax
- Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Gonzales Fred

Title: Water/Wastewater Superintendent Credential: Click to enter text.

Organization Name: City of South Houston, Public Works, Water/Wastewater

Mailing Address: P.O. Box 238 City, State, Zip Code: South Houston, TX 77587-0238

Phone No.: (713) 944-2027 E-mail Address: sohowtp@yahoo.com

D. Public Viewing Information

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

Public building name: South Houston City Hall

Location within the building: City Secretary's office

Physical Address of Building: 1018 Dallas Street

City: South Houston County: Harris

Contact (Last Name, First Name): Lance Avant

Phone No.: (713) 947-7700 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

- Yes
- No

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

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

Yes No

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

Yes No

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

Yes No

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

F. Plain Language Summary Template

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

Attachment: See Attachment 1

G. Public Involvement Plan Form

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

Attachment: Not Required

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 102986312

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

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

South Houston Wastewater Treatment Plant

C. Owner of treatment facility: City of South 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 South Houston

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-0238

Phone No.: (713) 947-7700

E-mail Address: lavant@southhoustontx.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: [Click to enter text](#)

E. Owner of effluent disposal site:

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

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

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

Yes No

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

[Click to enter text.](#)

- B.** City nearest the disposal site: [Click to enter text.](#)

- C.** County in which the disposal site is located: [Click to enter text.](#)

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

[Click to enter text.](#)

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

Yes No

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

Yes No Not Applicable

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

[Click to enter text.](#)

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

Yes No

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

D. Do you owe any fees to the TCEQ?

Yes No

If yes, provide the following information:

Account number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

E. Do you owe any penalties to the TCEQ?

Yes No

If yes, please provide the following information:

Enforcement order number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

Section 13. Attachments (Instructions Page 33)

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

- Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- Original full-size USGS Topographic Map with the following information:
- Applicant's property boundary
 - Treatment facility boundary
 - Labeled point of discharge for each discharge point (TPDES only)
 - Highlighted discharge route for each discharge point (TPDES only)
 - Onsite sewage sludge disposal site (if applicable)
 - Effluent disposal site boundaries (TLAP only)
 - New and future construction (if applicable)
 - 1 mile radius information
 - 3 miles downstream information (TPDES only)
 - All ponds.
- Attachment 1 for Individuals as co-applicants
- Other Attachments. Please specify: **SEE ATTACHMENT 3 FOR USGS MAP**

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: Wq0010287001

Applicant: City of South Houston

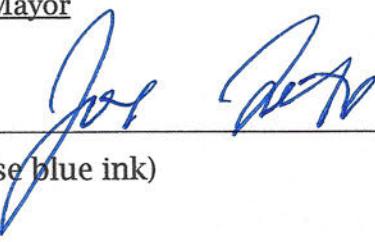
Certification:

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): Joe Soto

Signatory title: Mayor

Signature:  Date: 7/11/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Joe Soto
on this 11th day of July, 2024.

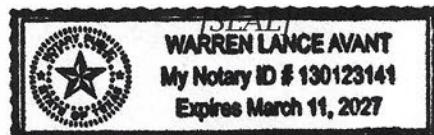
My commission expires on the 11th day of March, 2027.

W Lance Avant

Notary Public

arris

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: Attachment 2

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
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Yes

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
(Full-size map if seeking "New" permit.

Yes

8 ½ x 11 acceptable for Renewals and Amendments)

Current/Non-Expired, Executed Lease Agreement or Easement

N/A Yes

Landowners Map

N/A Yes

(See instructions for landowner requirements)

Things to Know:

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

Landowners Cross Reference List

N/A Yes

(See instructions for landowner requirements)

Landowners Labels or USB Drive attached

N/A Yes

(See instructions for landowner requirements)

Original signature per 30 TAC § 305.44 - Blue Ink Preferred

Yes

(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)

Plain Language Summary

Yes



PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS **Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER**

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

City of South Houston (CN 600548390) operates South Houston Wastewater Treatment Plant, a POTW (RN 102986312), a domestic wastewater treatment plant. The facility is located at 306 Michigan Street, in South Houston, Harris County, Texas 77587. South Houston has applied for a permit renewal to discharge 4,000,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain BOD, TSS, Ammonia Nitrogen and Chlorine. The domestic wastewater is treated by grit removal, activated sludge process, clarification, disinfection by chlorine addition, dichlorination and finally exit by outfall. Sludge is captured, dewatered and hauled to a landfill.

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /**AGUAS PLUVIALES**

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

La Ciudad del Sur de Houston ((CN 600548390)) opera la Planta de Tratamiento de Aguas Residuales del Sur de Houston, (RN 102986312, una planta de tratamiento de aguas residuales domésticas. La instalación está ubicada en 306 Michigan Street, en el sur de Houston, Condado de Harris, Texas 77587. El sur de Houston ha solicitado la renovación de un permiso para descargar 4,000,000 de galones por día de aguas residuales domésticas tratadas..

Se espera que las descargas de la instalación contengan DBO, SST, nitrógeno amoniacial y cloro. Aguas residuales domésticas. **está** tratado por eliminación de arena, proceso de lodos activados, clarificación, desinfección por adición de cloro, dchloración y finalmente salida por emisario. Los lodos se capturan, se deshidratan y se transportan a un vertedero..

Attachment 2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

**FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL
TPDES WASTEWATER PERMIT APPLICATIONS**

TCEQ USE ONLY:

Application type: Renewal Major Amendment Minor Amendment New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

Texas Historical Commission U.S. Fish and Wildlife

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

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

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

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

The following applies to all applications:

1. Permittee: City of South Houston

Permit No. WQ00 WQ10287001

EPA ID No. TX 0057307

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

206 Michigan Street, South Houston TX 77587 / Harris County

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

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

First and Last Name: Fred Gonzales

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

Title: Water / Wastewater Superintendent

Mailing Address: P.O. Box 238

City, State, Zip Code: South Houston, TX 77587-0238

Phone No.: (713) 944-2027 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: sohowwtp@yahoo.com

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.

Berry Bayou; thence to Sims Bayou; thence to the Houston Ship Channel / Buffalo Bayou Tidal in Segment 1007 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.

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

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

Disturbance of vegetation or wetlands

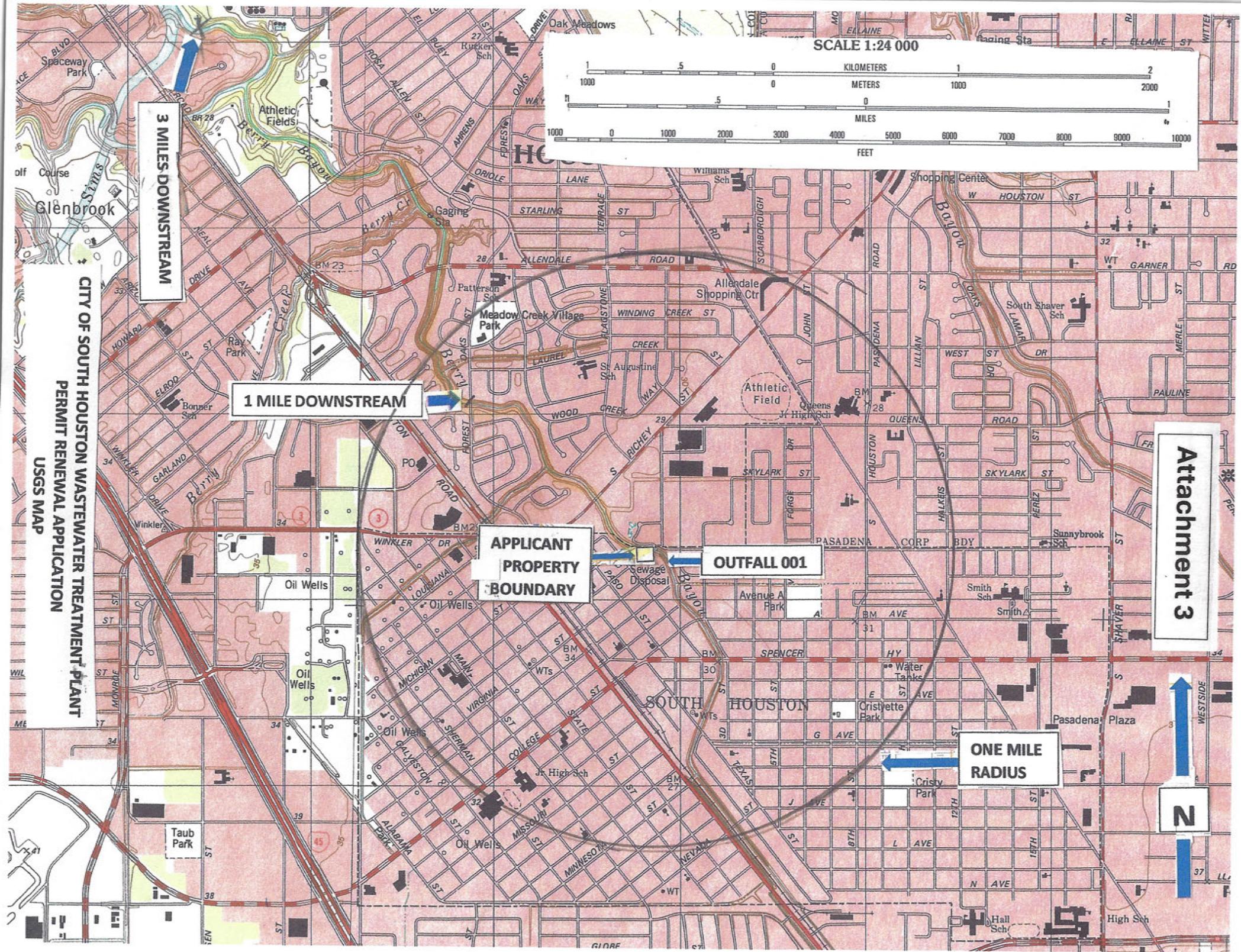
1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
[REDACTED]

2. Describe existing disturbances, vegetation, and land use:
[REDACTED]

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:
[REDACTED]

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



Attachment 4

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP Waste Permit No: WQ0010287-001

1. Check or Money Order Number: 142273
2. Check or Money Order Amount: \$2,015.00
3. Date of Check or Money Order: 6/24/2024
4. Name on Check or Money Order: City of South Houston
5. APPLICATION INFORMATION

Name of Project or Site: City of South Houston Watewater Treatment Plant

Physical Address of Project or Site: 206 Michigan Street, South Houston, Texas 77587/ Harris Co.

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

Staple Check or Money Order in This Space



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 4.0

2-Hr Peak Flow (MGD): 20

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

Provide the startup date of the facility: 1995

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

The treatment process uses the complete mix modification of the Activated Sludge Process. The treatment train employs influent lift station, bar screens, aerated mixing/oxidation (biological/nitrification combined), final clarification, effluent chlorination, dechlorination and final flow measurement with discharge through 42" outfall to Berry Bayou. The waste activated sludge is treated by aerobic digestion, dewatered on wedgewater filter beds with final disposal in landfill.

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)
Degritting Basin	1	25' X 25' X 12.5'
Aeration Basins(same size)	2	106' X 31.5' X 20'
Rapid Mix Zone (same Size)	2	30' X 21' X 20"
Clarifier (same size)	2	105' diameter X 15' deep
Chlorine Contact(same size)	2	96' X 37' X 15'

C. Process Flow Diagram

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

Attachment: See Attachment 5

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

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

- Latitude: 29-40-08
- Longitude: -95-14-05

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: See Attachment 6

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

Service area is the City limits for the City of South Houston, Texas.

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
South Houston System city limit boundaries	City of South Houston	Publicly Owned	17,548
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

Yes No

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

Yes No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

Yes No

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

- Yes No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

- Yes No

If yes, provide the date(s) of approval for each phase: [Click to enter text.](#)

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

[Click to enter text.](#)

B. Buffer zones

Have the buffer zone requirements been met?

- Yes No

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

Existing permit "Other Requirements" states "Issuance of this permit continues the variance authorized in the previous permit issued July 30, 1993. That authorization provides the permittee a variance to the buffer zone in accordance with the prior buffer zone rule 30 TAC Section 309.13(e)(1)(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*.

Settlement Agreement Other Requirements 8. The testing for Total Mercury shall use EPA method 245.1 with a Minimum Analytical Level (MAL) of 0.0005 mg/l. The effluent monitoring data shall be submitted each month, to the TCEQ Wastewater Permitting Section (MC 148), by the 20th day of the following month for Each discharge which is described by this permit whether or not a discharge is made for that discharge. Should the results from the testing exceed the MAL In six or more monitoring results over the duration of the permit or within three consecutive tests over the duration of the permit, the permittee shall file a formal request to the TCEQ Wastewater Permitting Section (MC 148) to modify its permit include an effluent limit for Total Mercury. This effluent limit will be determined by the TCEQ and be based on the TEXTOX calculation. The Total Mercury reporting requirements at Outfall 0011 will expire at the expiration of this permit. The reported values will be evaluated, and the reporting requirements may be reinstated or an effluent limit added at the next permit action.

Please note there have been no exceedances of the EPA Method 245.1 with a Minimum Analytical Level (MAL) of 0.0005 mg/l during the term of the current permit.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

Yes No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

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 5c109 or TXRNE 103727053

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 BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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 BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

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

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

Yes No

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

N/A

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

Is the facility in operation?

Yes No

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

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

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

Table 1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	6.6	6.6	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Total Suspended Solids, mg/l	<2.0	<2.0	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Ammonia Nitrogen, mg/l	<0.20	<0.20	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Nitrate Nitrogen, mg/l	13.1	13.1	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Total Kjeldahl Nitrogen, mg/l	1.71	1.71	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Sulfate, mg/l	82.7	82.7	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Chloride, mg/l	164	164	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Total Phosphorus, mg/l	4.86	4.86	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
pH, standard units	6.4	6.4	1	grab	6/27/24 8:55 am
Dissolved Oxygen*, mg/l	9.3	9.3	1	grab	6/27/24 8:55 am
Chlorine Residual, mg/l	2.3	2.2	1	grab	6/27/24 11:07 am
<i>E.coli</i> (CFU/100ml) freshwater	13	13	1	grab	6/27/24 11:00 am
Enterococci (CFU/100ml) saltwater	8	8	1	grab	6/27/24 11:00 am
Total Dissolved Solids, mg/l	472	472	1	grab	6/26/24 8:00 am - 6/27/24 8:00 am
Electrical Conductivity, $\mu\text{mhos}/\text{cm}$, †	751	751	1	comp	6/26/24 8:00 am - 6/27/24 8:00 am
Oil & Grease, mg/l	<5.0	<5.0	1	grab	6/27/24 8:50 am
Alkalinity (CaCO_3)*, mg/l	67.5	67.5	1		6/26/24 8:00 am - 6/27/24 8:00 am

*TPDES permits only

†TLAP permits only

Table 1.0(3) – Pollutant Analysis for Water Treatment Facilities

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Fred Gonzales

Facility Operator's License Classification and Level: B

Facility Operator's License Number: WW0029469

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

Other Treatment Process: [Click to enter text.](#)

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	On-Site Owner or Operator	Bulk		Class B: PSRP Anaerobic Digestion	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: BFI McCarty Road Landfill TX LP (5757A Oats Rd. 77078)

TCEQ permit or registration number: 261B

County where disposal site is located: Harris

E. Transportation method

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

Name of the hauler: City of South Houston

Hauler registration number: 21971

Sludge is transported as a:

Liquid semi-liquid semi-solid solid

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

A. Beneficial use authorization

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

Yes No

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

Yes No

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

Yes No

B. Sludge processing authorization

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

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of sludge	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

Yes No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

Yes No

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

A. Location information

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

- Original General Highway (County) Map:

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

- USDA Natural Resources Conservation Service Soil Map:

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

- Federal Emergency Management Map:

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

- Site map:

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

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

- Overlap a designated 100-year frequency flood plain
- Soils with flooding classification
- Overlap an unstable area

- Wetlands
- Located less than 60 meters from a fault
- None of the above

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

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

[Click to enter text.](#)

B. Temporary storage information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:

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

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

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

C. Liner information

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

Yes No

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

[Click to enter text.](#)

D. Site development plan

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

[Click to enter text.](#)

Attach the following documents to the application.

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

E. Groundwater monitoring

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

Yes No

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

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

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

A. Additional authorizations

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

Yes No

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

[Click to enter text.](#)

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes No

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

Yes No

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

[Click to enter text.](#)

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

A. RCRA hazardous wastes

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

Yes No

B. Remediation activity wastewater

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

Yes No

C. Details about wastes received

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

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

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

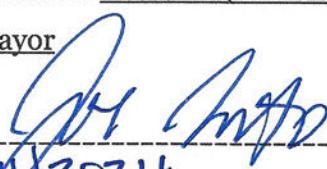
The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

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

Printed Name: Joe Soto (NELAP Lab is Envirodyne Laboratories, Inc.)

Title: Mayor

Signature: 

Date: 7/11/2024

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

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

Yes No

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

Owner of the drinking water supply: [Click to enter text.](#)

Distance and direction to the intake: [Click to enter text.](#)

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

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

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

Yes No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [Click to enter text.](#)

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes No

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

[Click to enter text.](#)

C. Sea grasses

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

Yes No

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

[Click to enter text.](#)

Section 3. Classified Segments (Instructions Page 64)

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

- Yes No

If yes, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

- Stream
- Freshwater Swamp or Marsh
- Lake or Pond

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

Average depth of the entire water body, in feet: [Click to enter text.](#)

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

- Man-made Channel or Ditch
- Open Bay
- Tidal Stream, Bayou, or Marsh
- Other, specify: [Click to enter text.](#)

B. Flow characteristics

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

- Intermittent - dry for at least one week during most years
- Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- Perennial - normally flowing

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

- USGS flow records
- Historical observation by adjacent landowners
- Personal observation
- Other, specify: [Click to enter text.](#)

C. Downstream perennial confluences

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

[Click to enter text.](#)

D. Downstream characteristics

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

- Yes No

If yes, discuss how.

[Click to enter text.](#)

E. Normal dry weather characteristics

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

[Click to enter text.](#)

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

Was the water body influenced by stormwater runoff during observations?

- Yes No

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

A. Upstream influences

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

- | | |
|---|--|
| <input type="checkbox"/> Oil field activities | <input type="checkbox"/> Urban runoff |
| <input type="checkbox"/> Upstream discharges | <input type="checkbox"/> Agricultural runoff |
| <input type="checkbox"/> Septic tanks | <input type="checkbox"/> 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 78)

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

Grab

Composite

Date and time sample(s) collected: **8/17/23 (SEE ATTACHMENT 7 FOR LAB REPORT)**

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. ($\mu\text{g/l}$)	MAX Effluent Conc. ($\mu\text{g/l}$)	Number of Samples	MAL ($\mu\text{g/l}$)
Acrylonitrile	<50		1	50
Aldrin	<01		1	0.01
Aluminum	24		1	2.5
Anthracene	<10		1	10
Antimony	<5		1	5
Arsenic	<0.05		1	0.5
Barium	22.1		1	3
Benzene	<10		1	10
Benzidine	<50		1	50
Benzo(a)anthracene	<5		1	5
Benzo(a)pyrene	<5		1	5
Bis(2-chloroethyl)ether	<10		1	10
Bis(2-ethylhexyl)phthalate	<10		1	10
Bromodichloromethane	<10		1	10
Bromoform	<10		1	10
Cadmium	<1		1	1
Carbon Tetrachloride	<2		1	2
Carbaryl	<5		1	5
Chlordane*	<0.2		1	0.2
Chlorobenzene	<10		1	10
Chlorodibromomethane	18		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	47.4		1	10
Chlorpyrifos	<0.05		1	0.05
Chromium (Total)	<3		1	3
Chromium (Tri) (*1)	N/A		1	N/A
Chromium (Hex)	<3		1	3
Copper	<2		1	2
Chrysene	<5		1	5
p-Chloro-m-Cresol	<10		1	10
4,6-Dinitro-o-Cresol	<50		1	50
p-Cresol	<10		1	10
Cyanide (*2)	<10		1	10
4,4'-DDD	<0.1		1	0.1
4,4'-DDE	<0.1		1	0.1
4,4'-DDT	<0.02		1	0.02
2,4-D	<0.7		1	0.7
Demeton (O and S)	<0.20		1	0.20
Diazinon	<0.5		1	0.5/0.1
1,2-Dibromoethane	<10		1	10
m-Dichlorobenzene	<10		1	10
o-Dichlorobenzene	<10		1	10
p-Dichlorobenzene	<10		1	10
3,3'-Dichlorobenzidine	<5		1	5
1,2-Dichloroethane	<10		1	10
1,1-Dichloroethylene	<10		1	10
Dichloromethane	<20		1	20
1,2-Dichloropropane	<10		1	10
1,3-Dichloropropene	<10		1	10
Dicofol	<1		1	1
Diieldrin	<0.02		1	0.02
2,4-Dimethylphenol	<10		1	10
Di-n-Butyl Phthalate	<10		1	10
Diuron	<0.09		1	0.09
Endosulfan I (alpha)	<0.01		1	0.01

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

Pollutant	AVG Effluent Conc. ($\mu\text{g/l}$)	MAX Effluent Conc. ($\mu\text{g/l}$)	Number of Samples	MAL ($\mu\text{g/l}$)
Polychlorinated Biphenyls (PCB's) (*3)	<0.2		1	0.2
Pyridine	<20		1	20
Selenium	<5		1	5
Silver	<0.5		1	0.5
1,2,4,5-Tetrachlorobenzene	<20		1	20
1,1,2,2-Tetrachloroethane	<10		1	10
Tetrachloroethylene	<10		1	10
Thallium	<0.5		1	0.5
Toluene	<10		1	10
Toxaphene	<0.3		1	0.3
2,4,5-TP (Silvex)	<0.3		1	0.3
Tributyltin (see instructions for explanation)	<0.01		1	0.01
1,1,1-Trichloroethane	<10		1	10
1,1,2-Trichloroethane	<10		1	10
Trichloroethylene	<10		1	10
2,4,5-Trichlorophenol	<10		1	50
TTHM (Total Trihalomethanes)	61.9		1	10
Vinyl Chloride	<10		1	10
Zinc	<10		1	5

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

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

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

Section 2. Priority Pollutants

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

Grab Composite

Date and time sample(s) collected: 8-17-23

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		1	5
Arsenic	0.9		1	0.5
Beryllium	<0.5		1	0.5
Cadmium	<1.0		1	1
Chromium (Total)	<3		1	3
Chromium (Hex)	<3		1	3
Chromium (Tri) (*1)	N/A		1	N/A
Copper	23.1		1	2
Lead	<0.5		1	0.5
Mercury	<0.005		1	0.005
Nickel	12.2		1	2
Selenium	<5		1	5
Silver	<0.5		1	0.5
Thallium	<0.5		1	0.5
Zinc	80.5		1	5
Cyanide (*2)	<10		1	10
Phenols, Total	<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. ($\mu\text{g/l}$)	MAX Effluent Conc. ($\mu\text{g/l}$)	Number of Samples	MAL ($\mu\text{g/l}$)
Acrolein	<50		1	50
Acrylonitrile	<50		1	50
Benzene	<10		1	10
Bromoform	<10		1	10
Carbon Tetrachloride	<2		1	2
Chlorobenzene	<10		1	10
Chlorodibromomethane	<10		1	10
Chloroethane	<50		1	50
2-Chloroethylvinyl Ether	<10		1	10
Chloroform	<10		1	10
Dichlorobromomethane [Bromodichloromethane]	14.5		1	10
1,1-Dichloroethane	<10		1	10
1,2-Dichloroethane	<10		1	10
1,1-Dichloroethylene	<10		1	10
1,2-Dichloropropane	<10		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10		1	10
1,2-Trans-Dichloroethylene	<10		1	10
Ethylbenzene	<10		1	10
Methyl Bromide	<50		1	50
Methyl Chloride	<50		1	50
Methylene Chloride	<20		1	20
1,1,2,2-Tetrachloroethane	<10		1	10
Tetrachloroethylene	<10		1	10
Toluene	<10		1	10
1,1,1-Trichloroethane	<10		1	10
1,1,2-Trichloroethane	<10		1	10
Trichloroethylene	<10		1	10
Vinyl Chloride	<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		1	10
2,4-Dichlorophenol	<10		1	10
2,4-Dimethylphenol	<10		1	10
4,6-Dinitro-o-Cresol	<50		1	50
2,4-Dinitrophenol	<50		1	50
2-Nitrophenol	<20		1	20
4-Nitrophenol	<50		1	50
P-Chloro-m-Cresol	<10		1	10
Pentalchlorophenol	<5		1	5
Phenol	<10		1	10
2,4,6-Trichlorophenol	<10		1	10

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

Click to enter text.

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

- Yes No

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

Click to enter text.

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

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

Grab Composite

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: 24

48-hour Acute: 9

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 3

Average Daily Flows, in MGD: 0.011

Significant IUs - non-categorical:

Number of IUs: 0

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

Other IUs:

Number of IUs: 1

Average Daily Flows, in MGD: 0.005

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 90)

A. Substantial modifications

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

Yes No

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

N/A

B. Non-substantial modifications

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

Yes No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
See Attachment 8				

D. Industrial user interruptions

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

Yes No

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

N/A

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

A. General information

Company Name: [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 instructions?

- Yes No

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

- Yes No

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

Category: Subcategories: [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

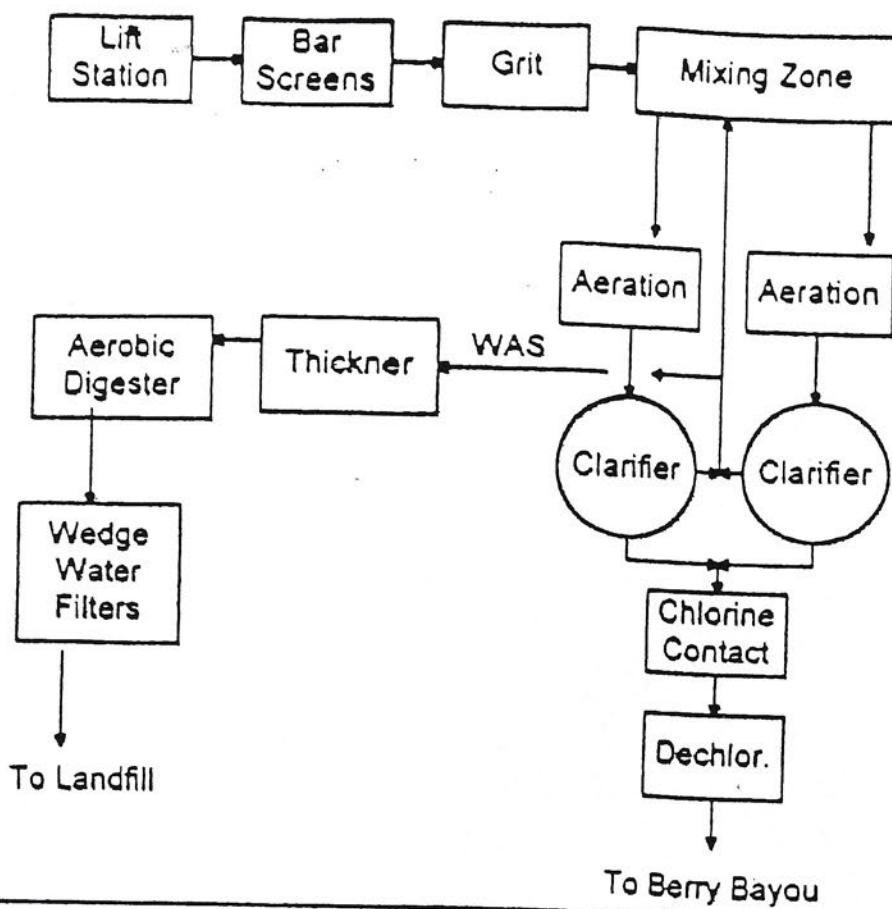
If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

[Click to enter text.](#)

Attachment 5

CITY OF SOUTH HOUSTON WASTEWATER TREATMENT PLANT

PROCESS FLOW



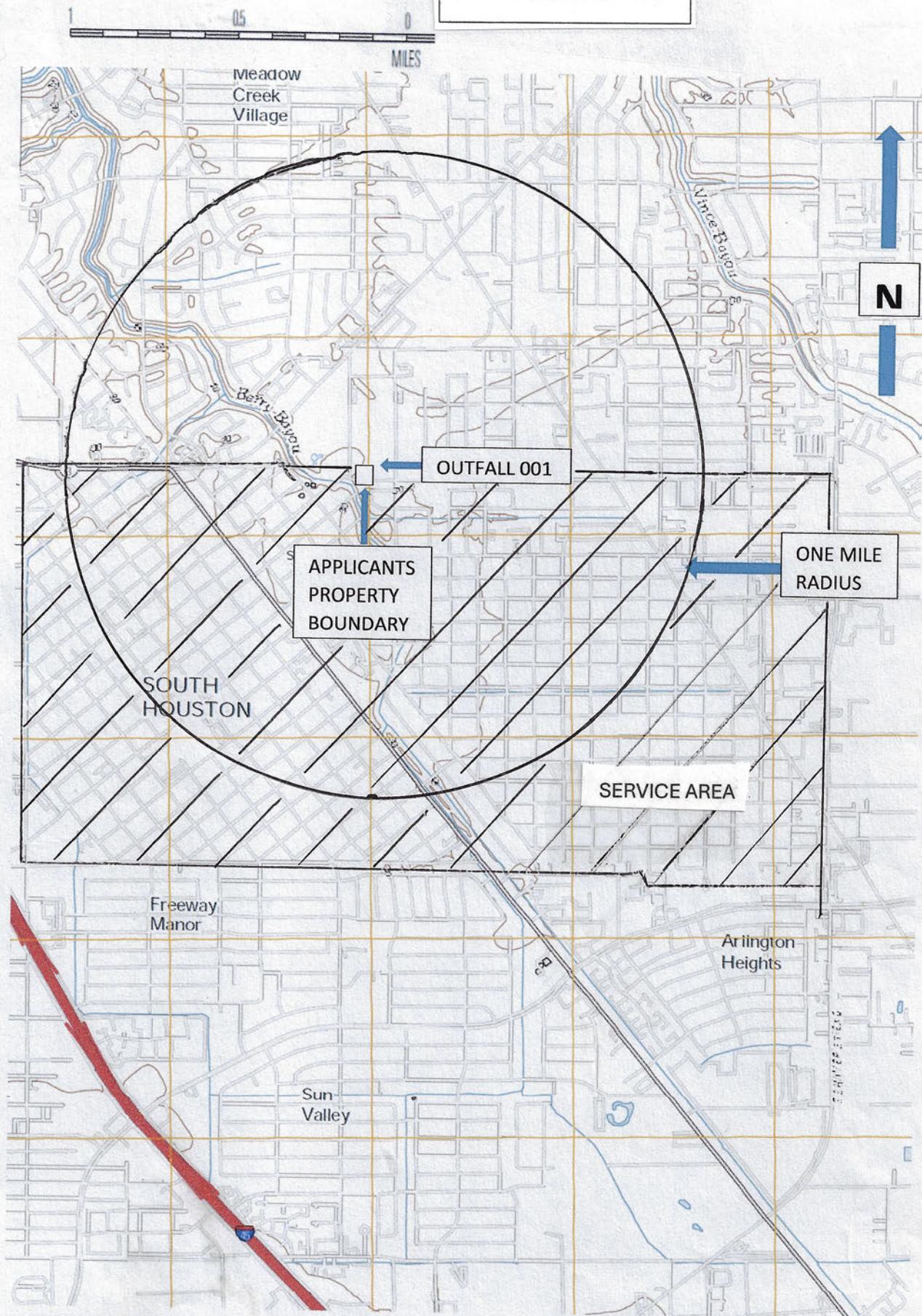
UNIT	CAPACITY MGD
LIFT STATION	20.0
AERATION	4.0
CLARIFIER	20.0 (2HR. PEAK)
CHLORINECONTACT	20.0 (2HR. PEAK)

PROCESS DESCRIPTION

The facility is designed for average flow of 4.0 MGD and peak 2 hour flow of 20.0 MGD with effluent design of 10 mg/l BOD, 15 mg/l TSS and 3mg/l NH₃-N. The treatment process uses the complete mix modification of the activated sludge process. The treatment train employs aerated mixing/oxidation, final clarification, effluent chlorination with dechlorination and final flow measurement. The waste activated sludge is treated by thickening, aerobic digestion, dewatered on Wedgewater filter beds with final disposal in landfill.

COPY

Attachment 6



CITY OF SOUTH HOUSTON WASTEWATER TREATMENT PLANT
PERMIT RENEWAL APPLICATION
USGS MAP

Attachment 7



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

02 November 2023

South Houston - Pretreatment
Fred Gonzales
206 Michigan
South Houston, TX 77587

South Houston WWTP (Pretreatment)

Enclosed are the results of analyses for samples received by the laboratory on 17-Aug-23 13:50. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 35

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

A handwritten signature in blue ink that reads "Laura Bonjonia".

Laura Bonjonia For Tinesha Robinson
Client Services Representative



Certificate No: T104704265-22-20



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	South Houston - Pretreatment	
Project:	South Houston WWTP (Pretreatment)	
Work Order:	23H2576	Reported: 02-Nov-23 21:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent - Composite	23H2576-01	Water	17-Aug-23 08:00	17-Aug-23 13:50
Effluent - Grab	23H2576-02	Water	16-Aug-23 10:00	17-Aug-23 13:50
Effluent - Grab	23H2576-03	Water	16-Aug-23 12:00	17-Aug-23 13:50
Effluent - Grab	23H2576-04	Water	16-Aug-23 14:00	17-Aug-23 13:50
Effluent - Grab	23H2576-05	Water	16-Aug-23 16:00	17-Aug-23 13:50

Volatiles-

C=Vinyl Chloride, Styrene, MTBE, and 2-Chloroethyl Vinyl Ether are highly reactive compounds when samples are preserved with acids (pH <2). 2-Chloroethyl Vinyl Ether recoveries deteriorate with acid preservative. Acrolein or Acrylonitrile should be received with acidic preservation at pH> 4-5 and analyzed as soon as possible if it's a compound of interest.

Samples were non detect for bias high spike recoveries in the LCS/LCSD and MS/MSD.
L-Sample analyzed by TNI accredited lab T104704231-22-29

Envirodyne Laboratories, Inc.

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



ENVIRODYNE LABORATORIES, INC.

CLIENT: CITY OF SOUTH HOUSTON

LAB NUMBER: 23H2576-01A

DATE COLLECTED: 17-Aug-23

DATE RECEIVED: 17-Aug-23

DATE COMPLETED: 25-Aug-23

SAMPLED BY: AG

LOCATION: Comp
EFFLUENT

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	24.0	EPA 200.8	FOS	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.8	FOS	5.0
TOTAL ARSENIC (ug/l)	0.9	EPA 200.8	FOS	0.5
TOTAL BARIUM (ug/l)	22.1	EPA 200.8	FOS	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.8	FOS	0.5
TOTAL CADMIUM (ug/l)	<1.0	EPA 200.8	FOS	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.8	FOS	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	SSJ	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	FOS	3.0
TOTAL COPPER (ug/l)	23.1	EPA 200.8	FOS	2.0
TOTAL LEAD (ug/l)	<0.5	EPA 200.8	FOS	<0.5
TOTAL MERCURY (ug/l)	*< 0.005	245.1	SUB	<0.005
TOTAL NICKEL (ug/l)	12.2	EPA 200.8	FOS	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.8	FOS	5.0
TOTAL SILVER (ug/l)	<0.5	EPA 200.8	FOS	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.8	FOS	0.5
TOTAL ZINC (ug/l)	80.5	EPA 200.8	FOS	5.0
TOTAL CYANIDE (ug/l)	*< 10.0	EPA 335.4	SUB	10.0
AMENABLE CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL PHENOLS (ug/l)	*<10.0	EPA 420.4	SUB	10.0
FLUORIDE (ug/l)	<500.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	25,800.0	SM 4500-NO3 D	SSJ	100.0

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by TNI certified lab T104704231

LAB REPRESENTATIVE



ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: CITY OF SOUTH HOUSTON

LAB NUMBER: 23H2576-01B

DATE COLLECTED: 17-Aug-23

DATE RECEIVED: 17-Aug-23

DATE COMPLETED 31-Aug-23

SAMPLED BY: AG

SAMPLE TYPE:
LOCATION:

EFFLUENT
Comp
PESTICIDES-PCB

EFFLUENT
Comp
PESTICIDES-PCB

EPA 1657*

EPA SW8081B*

Guthion (Azinphos Methyl) (ug/l)	< 0.10	Chlordane (ug/l)	< 0.15
Chlorpyrifos (ug/l)	< 0.05	4-4' - DDD (ug/l)	< 0.10
Demeton -O (ug/l)	< 0.20	4-4' - DDE (ug/l)	< 0.10
Demeton -S (ug/l)	< 0.20	4-4' - DDT (ug/l)	< 0.02
Diazinon (ug/l)	< 0.5	Dieldrin (ug/l)	< 0.02
Disulfoton (ug/l)	< 0.5	Dicofol (ug/l)	< 1.0
EPN (ug/l)	< 0.5	Endosulfan I (ug/l)	< 0.01
Ethion (ug/l)	< 0.5	Endosulfan II (ug/l)	< 0.02
Ethyl Parathion (ug/l)	< 0.1	Endosulfan Sulfate (ug/l)	< 0.10
Malathion (ug/l)	< 0.10	Endrin (ug/l)	< 0.02
Methyl Parathion (ug/l)	< 0.1	Gamma-BHC (Lindane) (ug/l)	< 0.05
Parathion (ug/l)	< 0.10	Heptachlor (ug/l)	< 0.01
EPA 608*		Heptaclor Epoxide (ug/l)	< 0.01
Aldrin (ug/l)	< 0.01	Methoxychlor (ug/l)	< 0.20
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05	Mirex (ug/l)	< 0.02
Beta - BHC (ug/l)	< 0.05	Total PCBs (ug/l)	< 0.2
		PCB-1016 (ug/l)	< 0.2
		PCB-1221 (ug/l)	< 0.2
		PCB-1232 (ug/l)	< 0.2
		PCB-1242 (ug/l)	< 0.2
		PCB-1248 (ug/l)	< 0.2
		PCB-1254 (ug/l)	< 0.2
		PCB-1260 (ug/l)	< 0.2
		Toxaphene (ug/l)	< 0.3
		Endrin Aldehyde (ug/l)	< 0.10
		Delta - BHC (ug/l)	< 0.05
		EPA 632*	
		Diuron (ug/l)	< 0.09
		EPA 8151*	
		2,4-D (ug/l)	< 0.7
		2,4,5-TP (Silvex) (ug/l)	< 0.3

EPA 625*
Carbaryl (ug/l) < 5.0



LAB REPRESENTATIVE

*Analyzed by NELAP certified lab T104704231



ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: CITY OF SOUTH HOUSTON

LAB NUMBER: 23H2576-01C

DATE COLLECTED: 17-Aug-23

DATE RECEIVED: 17-Aug-23

DATE COMPLETED: 24-Aug-23

SAMPLED BY: AG

LOCATION: 24 Hr - COMP

EFFLUENT

@ 0800 - 0800

Start - Stop

Aug 16th - Aug 17th

ACENAPHTHENE (ug/l) 10.0 U
ACENAPHTHYLENE (ug/l) 10.0 U
ANTHRACENE (ug/l) 10.0 U
BENZIDINE (ug/l) 50.0 U
BENZO (a) ANTHRACENE (ug/l) 5.0 U
BENZO (a) PYRENE (ug/l) 5.0 U
BENZO (B) FLUORANTHENE (ug/l) 10.0 U
BENZO (GHI) PERYLENE (ug/l) 20.0 U
BENZO (K) FLUORANTHENE (ug/l) 5.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l) 10.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l) 10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l) 10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l) 10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l) 10.0 U
BUTYL BENZYL PHTHALATE (ug/l) 10.0 U
2-CHLORONAPHTHALENE (ug/l) 10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l) 10.0 U
CHRYSENE (ug/l) 5.0 U
DIBENZO (a,h) ANTHRACENE (ug/l) 5.0 U
1,2-DICHLOROBENZENE (ug/l) 10.0 U
1,3-DICHLOROBENZENE (ug/l) 10.0 U
(p)1,4-DICHLOROBENZENE (ug/l) 10.0 U
3,3-DICHLOROBENZIDINE (ug/l) 5.0 U
DIETHYL PHTHALATE (ug/l) 10.0 U
DIMETHYL PHTHALATE (ug/l) 10.0 U
DI-N-BUTYL PHTHALATE (ug/l) 10.0 U
DIBENZOFURAN (ug/l) 10.0 U
FLUORANTHENE (ug/l) 10.0 U
FLUORENE (ug/l) 10.0 U
HEXACHLOROBENZENE (ug/l) 5.0 U
HEXACHLOROBUTADIENE (ug/l) 10.0 U
HEXACHLOROETHANE (ug/l) 20.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l) 10.0 U
HEXACHLOROPHENE (ug/l) 10.0 U
IDENO (1,2,3,cd) PYRENE (ug/l) 5.0 U
1,2-Diphenyl Hydrazine (ug/l) 20.0 U
N-NITROSO-di-n-BUTYLAMINE (ug/l) 20.0 U
N-NITROSO-DI-ETHYLAMINE (ug/l) 20.0 U

ISOPHORONE (ug/l) 10.0 U
NAPHTHALENE (ug/l) 10.0 U
NITROBENZENE (ug/l) 10.0 U
N-NITROSO-di-n-PROPYLAMINE (ug/l) 20.0 U
N-NITROSODIPHENYLAMINE (ug/l) 20.0 U
N-NITROSODIMETHYLAMINE (ug/l) 50.0 U
PHENANTHRENE (ug/l) 10.0 U
PYRENE (ug/l) 10.0 U
1,2,4-TRICHLOROBENZENE (ug/l) 10.0 U
1,2,4,5-TETRACHLOROBENZENE (ug/l) 20.0 U
2, 4-DINITROTOLUENE (ug/l) 10.0 U
2, 6-DINITROTOLUENE (ug/l) 10.0 U
2-METHYLNAPHTHALENE (ug/l) 10.0 U
Di-n-octyl PHTHALATE (ug/l) 10.0 U
PYRIDINE (ug/l) 20.0 U
p-CRESOL (ug/l) 10.0 U

ACID COMPOUNDS

EFFLUENT (Cont.)

2-CHLOROPHENOL (ug/l) 10.0 U
2,4-DICHLOROPHENOL (ug/l) 10.0 U
2,4-DIMETHYLPHENOL (ug/l) 10.0 U
4, 6-DINITRO-o-CRESOL (ug/l) 50.0 U
4,6-DINITRO-2-METHYLPHENOL (ug/l) 20.0 U
2,4-DINITROPHENOL (ug/l) 50.0 U
2-NITROPHENOL (ug/l) 20.0 U
4-NITROPHENOL (ug/l) 50.0 U
p-CHLORO-m-CRESOL (ug/l) 10.0 U
2-METHYLPHENOL (ug/l) 10.0 U
PENTACHLOROPHENOL (ug/l) 5.0 U
PHENOL (ug/l) 10.0 U
2,4,6-TRICHLOROPHENOL (ug/l) 10.0 U
2,4,5-TRICHLOROPHENOL (ug/l) 50.0 U
PENTACHLOROBENZENE (ug/l) 20.0 U
4-CHLORO-3-METHYL PHENOL (ug/l) 10.0 U
NONYLPHENOL (ug/l) 5.0 U

[Signature]
LAB REPRESENTATIVE

Analyzed by NELAC certified lab T104704231
Ref. EPA-625 (Base/Neutrals & Acids)
U - Analyte Not Detected at the listed Detection Limit
J - Analyte Present but below Detection Limit



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-02 (Water) Sampled: 16-Aug-23 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

Dichlorodifluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Chloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Vinyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Bromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Chloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Trichlorofluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Acetone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Acrolein	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Carbon Disulfide	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Acetonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Methylene Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Acrylonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
MTBE (Methyl tert-butyl ether)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
trans-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Vinyl Acetate	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
2,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
cis-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Bromochloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Chloroform	52.7	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
2-Butanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1,1-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Tetrahydrofuran	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Carbon Tetrachloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Trichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR

Envirodyne Laboratories, Inc.

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-02 (Water) Sampled: 16-Aug-23 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

2-Pentanone	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Dibromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Bromodichloromethane	16.2	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
2-Chloroethyl vinyl ether	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
cis-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
trans-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1,2-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Dibromo-chloromethane	3.47	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2-Dibromoethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
4-Methyl-2-Pentanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Toluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Tetrachloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,3-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
2-Hexanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Chlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1,1,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Ethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
m,p-Xylene	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
o-Xylene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Styrene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Bromoform	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Isopropylbenzene (Cumene)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,1,2,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2,3-Trichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Bromobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Propylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
2-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,3,5-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
4-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
tert-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR

Envirodyne Laboratories, Inc.

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-02 (Water) Sampled: 16-Aug-23 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

1,2,4-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
sec-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
p-Isopropyltoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,3-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,4-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Benzyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
n-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2-Dibromo-3-chloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2,4-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Hexachlorobutadiene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Naphthalene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
1,2,3-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Total Trihalomethanes	72.3	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Total Xylenes	<7.50	7.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Surrogate: Dibromofluoromethane		113 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Surrogate: Toluene-d8		99.7 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR
Surrogate: 4-Bromofluorobenzene		100 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:11	EPA 624.1	PCASTR

Wet Chemistry

Cyanide, Amenable	0.009	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Cyanide, Total	0.009	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Phenol	<0.05	0.05	mg/L	1	B3I2934	24-Aug-23	24-Aug-23 11:48	EPA 420.1 SUB	L

Envirodyne Laboratories, Inc.

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-03 (Water) Sampled: 16-Aug-23 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

Dichlorodifluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Chloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Vinyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Bromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Chloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Trichlorofluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Acetone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Acrolein	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Carbon Disulfide	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Acetonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Methylene Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Acrylonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
MTBE (Methyl tert-butyl ether)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
trans-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Vinyl Acetate	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
2,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
cis-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Bromochloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Chloroform	55.5	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
2-Butanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1,1-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Tetrahydrofuran	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Carbon Tetrachloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Trichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR

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Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-03 (Water) Sampled: 16-Aug-23 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

2-Pentanone	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Dibromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Bromodichloromethane	17.3	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
2-Chloroethyl vinyl ether	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
cis-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
trans-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1,2-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Dibromochloromethane	3.28	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2-Dibromoethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
4-Methyl-2-Pentanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Toluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Tetrachloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,3-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
2-Hexanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Chlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1,1,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Ethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
m,p-Xylene	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
o-Xylene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Styrene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Bromoform	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Isopropylbenzene (Cumene)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,1,2,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2,3-Trichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Bromobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Propylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
2-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,3,5-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
4-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
tert-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR

Envirodyne Laboratories, Inc.

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-03 (Water) Sampled: 16-Aug-23 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

1,2,4-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
sec-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
p-Isopropyltoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,3-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,4-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Benzyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
n-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2-Dibromo-3-chloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2,4-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Hexachlorobutadiene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Naphthalene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
1,2,3-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Total Trihalomethanes	76.1	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Total Xylenes	<7.50	7.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Surrogate: Dibromoformmethane		118 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Surrogate: Toluene-d8		99.9 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR
Surrogate: 4-Bromofluorobenzene		102 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:34	EPA 624.1	PCASTR

Wet Chemistry

Cyanide, Amenable	<0.005	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Cyanide, Total	<0.005	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Phenol	<0.05	0.05	mg/L	1	B3I2934	24-Aug-23	24-Aug-23 11:48	EPA 420.1 SUB	L

Envirodyne Laboratories, Inc.

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	South Houston - Pretreatment	
Project:	South Houston WWTP (Pretreatment)	
Work Order:	23H2576	
Reported:		02-Nov-23 21:43

Effluent - Grab
23H2576-04 (Water) Sampled: 16-Aug-23 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

Dichlorodifluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Chloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Vinyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Bromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Chloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Trichlorofluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Acetone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Acrolein	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Carbon Disulfide	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Acetonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Methylene Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Acrylonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
MTBE (Methyl tert-butyl ether)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
trans-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Vinyl Acetate	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
2,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
cis-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Bromochloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Chloroform	54.3	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
2-Butanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1,1-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Tetrahydrofuran	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Carbon Tetrachloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Trichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR

Envirodyne Laboratories, Inc.

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



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-04 (Water) Sampled: 16-Aug-23 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

2-Pentanone	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Dibromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Bromodichloromethane	18.2	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
2-Chloroethyl vinyl ether	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
cis-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
trans-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1,2-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Dibromochloromethane	3.42	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2-Dibromoethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
4-Methyl-2-Pentanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Toluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Tetrachloroethylene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,3-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
2-Hexanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Chlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1,1,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Ethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
m,p-Xylene	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
o-Xylene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Styrene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Bromoform	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Isopropylbenzene (Cumene)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,1,2,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2,3-Trichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Bromobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Propylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
2-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,3,5-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
4-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
tert-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR

Envirodyne Laboratories, Inc.

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11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-04 (Water) Sampled: 16-Aug-23 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

1,2,4-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
sec-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
p-Isopropyltoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,3-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,4-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Benzyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
n-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2-Dibromo-3-chloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2,4-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Hexachlorobutadiene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Naphthalene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
1,2,3-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Total Trihalomethanes	75.9	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Total Xylenes	<7.50	7.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Surrogate: Dibromofluoromethane		110 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Surrogate: Toluene-d8		99.5 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR
Surrogate: 4-Bromo fluorobenzene		98.2 %	70-130		B3H5061	22-Aug-23	22-Aug-23 14:58	EPA 624.1	PCASTR

Wet Chemistry

Cyanide, Amenable	<0.005	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Cyanide, Total	<0.005	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Phenol	<0.05	0.05	mg/L	1	B3I2934	24-Aug-23	24-Aug-23 11:48	EPA 420.1 SUB	L

Envirodyne Laboratories, Inc.

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Laura Bonjonia For Tinesha Robinson, Client Services Representative



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-05 (Water) Sampled: 16-Aug-23 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

Dichlorodifluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Chloromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Vinyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Bromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Chloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Trichlorofluoromethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Acetone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Acrolein	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Carbon Disulfide	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Acetonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Methylene Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Acrylonitrile	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
MTBE (Methyl tert-butyl ether)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
trans-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Vinyl Acetate	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
2,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
cis-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Bromoform	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Chloroform	55.0	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
2-Butanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2-Dichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1,1-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Tetrahydrofuran	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Carbon Tetrachloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Trichloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR

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www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-05 (Water) Sampled: 16-Aug-23 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

2-Pentanone	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Dibromomethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Bromodichloromethane	18.3	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
2-Chloroethyl vinyl ether	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
cis-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
trans-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1,2-Trichloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Dibromochloromethane	3.71	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2-Dibromoethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
4-Methyl-2-Pantanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Toluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Tetrachloroethene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,3-Dichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
2-Hexanone	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Chlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1,1,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Ethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
m,p-Xylene	<10.0	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
o-Xylene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Styrene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Bromoform	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Isopropylbenzene (Cumene)	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,1,2,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2,3-Trichloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Bromobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Propylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
2-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,3,5-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
4-Chlorotoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
tert-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR

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Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Effluent - Grab
23H2576-05 (Water) Sampled: 16-Aug-23 16:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Volatile Organic Compounds by EPA 624.1

1,2,4-Trimethylbenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
sec-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
p-Isopropyltoluene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,3-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,4-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Benzyl Chloride	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
n-butyl Benzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2-Dichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2-Dibromo-3-chloropropane	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2,4-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Hexachlorobutadiene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Naphthalene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
1,2,3-Trichlorobenzene	<2.50	2.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Total Trihalomethanes	77.1	10.0	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Total Xylenes	<7.50	7.50	ug/L	1	B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Surrogate: Dibromofluoromethane	114 %	70-130			B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Surrogate: Toluene-d8	97.4 %	70-130			B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			B3H5061	22-Aug-23	22-Aug-23 15:22	EPA 624.1	PCASTR

Wet Chemistry

Cyanide, Amenable	<0.005	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Cyanide, Total	<0.005	0.005	mg/L	1	B3I2935	25-Aug-23	25-Aug-23 15:15	SM 4500 CN E&GSUB	L
Phenol	<0.05	0.05	mg/L	1	B3I2934	24-Aug-23	24-Aug-23 11:48	EPA 420.1 SUB	L

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Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch B3H5061 - Organics

Blank (B3H5061-BLK1)

Prepared & Analyzed: 22-Aug-23

Dichlorodifluoromethane	<2.50	2.50	ug/L							
Chloromethane	<2.50	2.50	"							
Vinyl Chloride	<2.50	2.50	"							
Bromomethane	<2.50	2.50	"							
Chloroethane	<2.50	2.50	"							
Trichlorofluoromethane	<2.50	2.50	"							
Acetone	<10.0	10.0	"							
Acrolein	<2.50	2.50	"							
1,1-Dichloroethene	<2.50	2.50	"							
Carbon Disulfide	<2.50	2.50	"							
Acetonitrile	<2.50	2.50	"							
Methylene Chloride	<2.50	2.50	"							
Acrylonitrile	<2.50	2.50	"							
MTBE (Methyl tert-butyl ether)	<2.50	2.50	"							
trans-1,2-Dichloroethene	<2.50	2.50	"							
1,1-Dichloroethane	<2.50	2.50	"							
Vinyl Acetate	<2.50	2.50	"							
2,2-Dichloropropane	<2.50	2.50	"							
cis-1,2-Dichloroethene	<2.50	2.50	"							
Bromoform	<2.50	2.50	"							
Chloroform	<2.50	2.50	"							
2-Butanone	<10.0	10.0	"							
1,2-Dichloroethane	<2.50	2.50	"							
1,1,1-Trichloroethane	<2.50	2.50	"							
Tetrahydrofuran	<2.50	2.50	"							
Carbon Tetrachloride	<2.50	2.50	"							
1,1-Dichloropropene	<2.50	2.50	"							
Benzene	<2.50	2.50	"							
Trichloroethene	<2.50	2.50	"							
1,2-Dichloropropane	<2.50	2.50	"							
2-Pentanone	<2.50	2.50	"							
Dibromomethane	<2.50	2.50	"							

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Blank (B3H5061-BLK1) Prepared & Analyzed: 22-Aug-23										
Bromodichloromethane	<2.50	2.50	ug/L							
2-Chloroethyl vinyl ether	<2.50	2.50	"							
cis-1,3-Dichloropropene	<2.50	2.50	"							
trans-1,3-Dichloropropene	<2.50	2.50	"							
1,1,2-Trichloroethane	<2.50	2.50	"							
Dibromochloromethane	<2.50	2.50	"							
1,2-Dibromoethane	<2.50	2.50	"							
4-Methyl-2-Pentanone	<10.0	10.0	"							
Toluene	<2.50	2.50	"							
Tetrachloroethene	<2.50	2.50	"							
1,3-Dichloropropane	<2.50	2.50	"							
2-Hexanone	<10.0	10.0	"							
Chlorobenzene	<2.50	2.50	"							
1,1,1,2-Tetrachloroethane	<2.50	2.50	"							
Ethylbenzene	<2.50	2.50	"							
m,p-Xylene	<10.0	10.0	"							
o-Xylene	<2.50	2.50	"							
Styrene	<2.50	2.50	"							
Bromoform	<2.50	2.50	"							
Isopropylbenzene (Cumene)	<2.50	2.50	"							
1,1,2,2-Tetrachloroethane	<2.50	2.50	"							
1,2,3-Trichloropropane	<2.50	2.50	"							
Bromobenzene	<2.50	2.50	"							
Propylbenzene	<2.50	2.50	"							
2-Chlorotoluene	<2.50	2.50	"							
1,3,5-Trimethylbenzene	<2.50	2.50	"							
4-Chlorotoluene	<2.50	2.50	"							
tert-butyl Benzene	<2.50	2.50	"							
1,2,4-Trimethylbenzene	<2.50	2.50	"							
sec-butyl Benzene	<2.50	2.50	"							
p-Isopropyltoluene	<2.50	2.50	"							
1,3-Dichlorobenzene	<2.50	2.50	"							

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H5061 - Organics

Blank (B3H5061-BLK1)

Prepared & Analyzed: 22-Aug-23

1,4-Dichlorobenzene	<2.50	2.50	ug/L							
Benzyl Chloride	<2.50	2.50	"							
n-butyl Benzene	<2.50	2.50	"							
1,2-Dichlorobenzene	<2.50	2.50	"							
1,2-Dibromo-3-chloropropane	<2.50	2.50	"							
1,2,4-Trichlorobenzene	<2.50	2.50	"							
Hexachlorobutadiene	<2.50	2.50	"							
Naphthalene	<2.50	2.50	"							
1,2,3-Trichlorobenzene	<2.50	2.50	"							
Total Trihalomethanes	<10.0	10.0	"							
Total Xylenes	<7.50	7.50	"							
Surrogate: Dibromofluoromethane	33	"	30.0		III	70-130				
Surrogate: 1,2-Dichloroethane-d4	31	"	30.0		102	70-130				
Surrogate: Toluene-d8	29	"	30.0		98.1	70-130				
Surrogate: 4-Bromo Fluorobenzene	30	"	30.0		99.3	70-130				

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
LCS (B3H5061-BS1)										
Prepared & Analyzed: 22-Aug-23										
Dichlorodifluoromethane	20.6	2.50	ug/L	20.0	103	1.16-250				
Chloromethane	20.9	2.50	"	20.0	104	1-205				
Vinyl Chloride	21.0	2.50	"	20.0	105	1-251				
Bromomethane	15.9	2.50	"	20.0	79.4	15-185				
Chloroethane	20.1	2.50	"	20.0	101	40-160				
Trichlorofluoromethane	22.4	2.50	"	20.0	112	17-181				
Acetone	22.2	10.0	"	20.0	111	35.9-210				
Acrolein	17.0	2.50	"	20.0	84.8	60-140				
1,1-Dichloroethene	26.1	2.50	"	20.0	130	50-150				
Carbon Disulfide	23.2	2.50	"	20.0	116	7-120				
Acetonitrile	25.6	2.50	"	20.0	128	70-120				Q
Methylene Chloride	23.5	2.50	"	20.0	118	60-140				
Acrylonitrile	23.5	2.50	"	20.0	117	60-140				
MTBE (Methyl tert-butyl ether)	25.5	2.50	"	20.0	127	70-120				
trans-1,2-Dichloroethene	24.1	2.50	"	20.0	121	70-130				Q
1,1-Dichloroethane	25.6	2.50	"	20.0	128	70-130				
Vinyl Acetate	25.4	2.50	"	20.0	127	60-140				
2,2-Dichloropropane	25.7	2.50	"	20.0	128	70-120				
cis-1,2-Dichloroethene	24.7	2.50	"	20.0	124	70-120				Q
Bromoform	26.3	2.50	"	20.0	132	70-120				Q
Chloroform	24.0	2.50	"	20.0	120	70-135				Q
2-Butanone	18.9	10.0	"	20.0	94.4	48.6-151				
1,2-Dichloroethane	21.1	2.50	"	20.0	106	70-130				
1,1,1-Trichloroethane	22.0	2.50	"	20.0	110	56-162				
Tetrahydrofuran	20.1	2.50	"	20.0	100	70-130				
Carbon Tetrachloride	21.4	2.50	"	20.0	107	70-130				
1,1-Dichloropropene	20.8	2.50	"	20.0	107	70-130				
Benzene	21.9	2.50	"	20.0	104	70-120				
Trichloroethene	21.9	2.50	"	20.0	110	65-135				
1,2-Dichloropropane	21.8	2.50	"	20.0	109	70-157				
2-Pentanone	21.3	2.50	"	20.0	109	35-165				
Dibromomethane	22.4	2.50	"	20.0	106	70-120				
					112	70-120				

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
LCS (B3H5061-BS1)										
Bromodichloromethane	21.9	2.50	ug/L	20.0	110	65-135				
2-Chloroethyl vinyl ether	19.0	2.50	"	20.0	94.8	1-225				
cis-1,3-Dichloropropene	22.4	2.50	"	20.0	112	25-175				
trans-1,3-Dichloropropene	21.8	2.50	"	20.0	109	50-150				
1,1,2-Trichloroethane	22.2	2.50	"	20.0	111	52-150				
Dibromochloromethane	21.9	2.50	"	20.0	110	70-135				
1,2-Dibromoethane	21.5	2.50	"	20.0	108	70-130				
4-Methyl-2-Pentanone	20.1	10.0	"	20.0	100	58.2-144				
Toluene	21.1	2.50	"	20.0	106	47-150				
Tetrachloroethene	16.0	2.50	"	20.0	80.0	64-148				
1,3-Dichloropropane	20.7	2.50	"	20.0	104	70-120				
2-Hexanone	20.2	10.0	"	20.0	101	51.8-156				
Chlorobenzene	20.2	2.50	"	20.0	101	65-135				
1,1,1,2-Tetrachloroethane	21.5	2.50	"	20.0	107	46-157				
Ethylbenzene	22.4	2.50	"	20.0	112	60-140				
m,p-Xylene	44.9	10.0	"	40.0	112	70-120				
o-Xylene	21.6	2.50	"	20.0	108	70-120				
Styrene	21.6	2.50	"	20.0	108	70-120				
Bromoform	20.8	2.50	"	20.0	104	70-130				
Isopropylbenzene (Cumene)	23.9	2.50	"	20.0	119	70-120				
1,1,2,2-Tetrachloroethane	22.0	2.50	"	20.0	110	46-157				
1,2,3-Trichloropropane	21.5	2.50	"	20.0	108	70-120				
Bromobenzene	22.3	2.50	"	20.0	112	70-120				
Propylbenzene	23.4	2.50	"	20.0	117	70-120				
2-Chlorotoluene	22.8	2.50	"	20.0	114	70-120				
1,3,5-Trimethylbenzene	24.0	2.50	"	20.0	120	70-120				
4-Chlorotoluene	22.8	2.50	"	20.0	114	70-120				
tert-butyl Benzene	25.2	2.50	"	20.0	126	70-120				
1,2,4-Trimethylbenzene	22.9	2.50	"	20.0	115	70-120				
sec-butyl Benzene	23.7	2.50	"	20.0	119	70-130				
p-Isopropyltoluene	23.6	2.50	"	20.0	118	70-120				
1,3-Dichlorobenzene	23.2	2.50	"	20.0	116	70-130				

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H5061 - Organics

LCS (B3H5061-BS1)

Prepared & Analyzed: 22-Aug-23

1,4-Dichlorobenzene	23.0	2.50	ug/L	20.0	115	65-135
Benzyl Chloride	20.0	2.50	"	20.0	99.8	70-120
n-butyl Benzene	23.9	2.50	"	20.0	119	70-120
1,2-Dichlorobenzene	22.6	2.50	"	20.0	113	65-135
1,2-Dibromo-3-chloropropane	21.4	2.50	"	20.0	107	60-140
1,2,4-Trichlorobenzene	22.2	2.50	"	20.0	111	70-120
Hexachlorobutadiene	23.0	2.50	"	20.0	115	70-120
Naphthalene	21.8	2.50	"	20.0	109	60-140
1,2,3-Trichlorobenzene	22.2	2.50	"	20.0	111	60-140
Total Trihalomethanes	88.7	10.0	"	80.0	111	35-155
Total Xylenes	66.5	7.50	"	60.0	111	70-120
<i>Surrogate: Dibromofluoromethane</i>	<i>34</i>		<i>"</i>	<i>30.0</i>	<i>115</i>	<i>70-130</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>29</i>		<i>"</i>	<i>30.0</i>	<i>97.2</i>	<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>29</i>		<i>"</i>	<i>30.0</i>	<i>96.5</i>	<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>30</i>		<i>"</i>	<i>30.0</i>	<i>99.4</i>	<i>70-130</i>

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Project:	South Houston WWTP (Pretreatment)	
Work Order:	23H2576	
		Reported: 02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
LCS Dup (B3H5061-BSD1)										
Prepared & Analyzed: 22-Aug-23										
Dichlorodifluoromethane	23.5	2.50	ug/L	20.0	118	1.16-250	13.1	20		
Chloromethane	21.5	2.50	"	20.0	107	1-205	2.79	60		
Vinyl Chloride	23.2	2.50	"	20.0	116	1-251	9.85	66		
Bromomethane	17.4	2.50	"	20.0	87.0	15-185	9.07	61		
Chloroethane	24.4	2.50	"	20.0	122	40-160	19.2	78		
Trichlorofluoromethane	23.8	2.50	"	20.0	119	17-181	6.12	84		
Acetone	24.2	10.0	"	20.0	121	35.9-210	8.68	25.2		
Acrolein	18.9	2.50	"	20.0	94.4	60-140	10.7	60		
1,1-Dichloroethene	27.2	2.50	"	20.0	136	50-150	4.17	32		
Carbon Disulfide	24.9	2.50	"	20.0	124	7-120	6.78	20		Q
Acetonitrile	28.1	2.50	"	20.0	140	70-120	9.12	20		Q
Methylene Chloride	25.6	2.50	"	20.0	128	60-140	8.32	28		
Acrylonitrile	24.3	2.50	"	20.0	122	60-140	3.55	60		
MTBE (Methyl tert-butyl ether)	26.4	2.50	"	20.0	132	70-120	3.36	20		Q
trans-1,2-Dichloroethene	25.6	2.50	"	20.0	128	70-130	5.99	45		
1,1-Dichloroethane	26.5	2.50	"	20.0	132	70-130	3.50	40		Q
Vinyl Acetate	26.2	2.50	"	20.0	131	60-140	3.14	20		
2,2-Dichloropropane	26.9	2.50	"	20.0	134	70-120	4.53	20		Q
cis-1,2-Dichloroethene	26.7	2.50	"	20.0	134	70-120	7.70	20		Q
Bromochloromethane	26.0	2.50	"	20.0	130	70-120	1.22	20		Q
Chloroform	25.5	2.50	"	20.0	128	70-135	6.18	54		
2-Butanone	20.6	10.0	"	20.0	103	48.6-151	8.81	21.6		
1,2-Dichloroethane	22.4	2.50	"	20.0	112	70-130	5.84	49		
1,1,1-Trichloroethane	22.2	2.50	"	20.0	111	56-162	1.04	36		
Tetrahydrofuran	21.0	2.50	"	20.0	105	70-130	4.53	20		
Carbon Tetrachloride	22.6	2.50	"	20.0	113	70-130	5.37	41		
1,1-Dichloropropene	22.4	2.50	"	20.0	112	70-120	7.31	20		
Benzene	22.9	2.50	"	20.0	114	65-135	4.42	61		
Trichloroethene	22.7	2.50	"	20.0	113	70-157	3.68	48		
1,2-Dichloropropane	23.0	2.50	"	20.0	115	35-165	5.49	55		
2-Pentanone	22.5	2.50	"	20.0	112	70-120	5.49	20		
Dibromomethane	23.1	2.50	"	20.0	116	70-120	3.21	20		

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11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H5061 - Organics

LCS Dup (B3H5061-BSD1)

Prepared & Analyzed: 22-Aug-23

Bromodichloromethane	22.6	2.50	ug/L	20.0	113	65-135	3.10	56	
2-Chloroethyl vinyl ether	19.8	2.50	"	20.0	98.9	1-225	4.18	71	
cis-1,3-Dichloropropene	23.3	2.50	"	20.0	117	25-175	4.20	58	
trans-1,3-Dichloropropene	22.8	2.50	"	20.0	114	50-150	4.43	86	
1,1,2-Trichloroethane	23.0	2.50	"	20.0	115	52-150	3.32	45	
Dibromochloromethane	22.5	2.50	"	20.0	112	70-135	2.48	50	
1,2-Dibromoethane	22.6	2.50	"	20.0	113	70-130	4.81	20	
4-Methyl-2-Pentanone	23.6	10.0	"	20.0	118	58.2-144	16.2	24.8	
Toluene	23.0	2.50	"	20.0	115	47-150	8.57	41	
Tetrachloroethene	19.1	2.50	"	20.0	95.6	64-148	17.7	39	
1,3-Dichloropropane	23.0	2.50	"	20.0	115	70-120	10.3	20	
2-Hexanone	22.7	10.0	"	20.0	114	51.8-156	11.6	23.6	
Chlorobenzene	22.6	2.50	"	20.0	113	65-135	11.3	53	
1,1,1,2-Tetrachloroethane	22.6	2.50	"	20.0	113	46-157	5.35	20	
Ethylbenzene	23.8	2.50	"	20.0	119	60-140	6.49	63	
m,p-Xylene	48.1	10.0	"	40.0	120	70-120	6.86	20	
o-Xylene	23.4	2.50	"	20.0	117	70-120	8.31	20	
Styrene	23.0	2.50	"	20.0	115	70-120	6.09	20	
Bromoform	23.9	2.50	"	20.0	120	70-130	13.9	42	
Isopropylbenzene (Cumene)	25.6	2.50	"	20.0	128	70-120	7.00	20	
1,1,2,2-Tetrachloroethane	23.7	2.50	"	20.0	118	46-157	7.50	61	
1,2,3-Trichloropropane	23.7	2.50	"	20.0	118	70-120	9.52	20	
Bromobenzene	24.4	2.50	"	20.0	122	70-120	8.99	20	
Propylbenzene	25.2	2.50	"	20.0	126	70-120	7.44	20	
2-Chlorotoluene	24.7	2.50	"	20.0	123	70-120	7.66	20	
1,3,5-Trimethylbenzene	25.6	2.50	"	20.0	128	70-120	6.29	20	
4-Chlorotoluene	24.6	2.50	"	20.0	123	70-120	7.21	20	
tert-butyl Benzene	26.8	2.50	"	20.0	134	70-120	6.03	20	
1,2,4-Trimethylbenzene	24.7	2.50	"	20.0	123	70-120	7.31	20	
sec-butyl Benzene	24.8	2.50	"	20.0	124	70-130	4.41	20	
p-Isopropyltoluene	24.9	2.50	"	20.0	125	70-120	5.27	20	
1,3-Dichlorobenzene	24.3	2.50	"	20.0	122	70-130	4.63	43	

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Page 23 of 35



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Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H5061 - Organics

LCS Dup (B3H5061-BSD1)

Prepared & Analyzed: 22-Aug-23

1,4-Dichlorobenzene	25.0	2.50	ug/L	20.0	125	65-135	8.58	57	
Benzyl Chloride	21.7	2.50	"	20.0	108	70-120	8.31	20	
n-butyl Benzene	25.1	2.50	"	20.0	126	70-120	5.10	20	
1,2-Dichlorobenzene	24.4	2.50	"	20.0	122	65-135	7.41	57	
1,2-Dibromo-3-chloropropane	23.8	2.50	"	20.0	119	60-140	11.0	20	
1,2,4-Trichlorobenzene	24.9	2.50	"	20.0	124	70-120	11.6	20	
Hexachlorobutadiene	24.5	2.50	"	20.0	123	70-120	6.36	20	Q
Naphthalene	24.1	2.50	"	20.0	120	60-140	10.1	20	Q
1,2,3-Trichlorobenzene	24.9	2.50	"	20.0	124	60-140	11.6	20	
Total Trihalomethanes	94.5	10.0	"	80.0	118	35-155	6.41	20	
Total Xylenes	71.5	7.50	"	60.0	119	70-120	7.33	20	
Surrogate: Dibromoformmethane	33		"	30.0	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	29		"	30.0	95.1	70-130			
Surrogate: Toluene-d8	30		"	30.0	99.6	70-130			
Surrogate: 4-Bromoformmethane	30		"	30.0	99.4	70-130			

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Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Matrix Spike (B3H5061-MS1)										
Source: 23H2269-03 Prepared & Analyzed: 22-Aug-23										
Dichlorodifluoromethane	25.8	2.50	ug/L	20.0	ND	129	1.16-250			
Chloromethane	19.9	2.50	"	20.0	ND	99.4	1-273			
Vinyl Chloride	21.7	2.50	"	20.0	ND	108	5-195			
Bromomethane	7.24	2.50	"	20.0	ND	36.2	1-242			
Chloroethane	<2.50	2.50	"	20.0	<2.50		14-230	0		
Trichlorofluoromethane	23.4	2.50	"	20.0	ND	117	50-150			
Acetone	25.8	10.0	"	20.0	ND	129	11.5-191			
Acrolein	18.5	2.50	"	20.0	ND	92.6	40-160			
1,1-Dichloroethene	26.3	2.50	"	20.0	ND	132	1-234			
Carbon Disulfide	26.5	2.50	"	20.0	ND	132	7-120			
Acetonitrile	25.7	2.50	"	20.0	ND	127	1-221			
Methylene Chloride	25.4	2.50	"	20.0	ND	129	70-120			
Acrylonitrile	25.8	2.50	"	20.0	ND	129	40-160			
MTBE (Methyl tert-butyl ether)	26.0	2.50	"	20.0	ND	130	70-120			
trans-1,2-Dichloroethene	26.5	2.50	"	20.0	ND	133	54-156			
1,1-Dichloroethane	25.4	2.50	"	20.0	ND	127	59-155			
Vinyl Acetate	4.52	2.50	"	20.0	ND	22.6	60-140			
2,2-Dichloropropane	24.6	2.50	"	20.0	ND	123	70-120			
cis-1,2-Dichloroethene	25.8	2.50	"	20.0	ND	129	70-120			
Bromochloromethane	25.9	2.50	"	20.0	ND	130	70-120			
Chloroform	48.7	2.50	"	20.0	22.7	130	51-138			
2-Butanone	27.0	10.0	"	20.0	ND	135	32.5-154			
1,2-Dichloroethane	24.8	2.50	"	20.0	ND	124	49-155			
1,1,1-Trichloroethane	24.4	2.50	"	20.0	ND	122	70-130			
Tetrahydrofuran	22.9	2.50	"	20.0	ND	115	70-130			
Carbon Tetrachloride	23.8	2.50	"	20.0	ND	119	70-140			
1,1-Dichloropropene	24.7	2.50	"	20.0	ND	125	65-135			
Benzene	23.8	2.50	"	20.0	ND	124	70-120			
Trichloroethene	24.9	2.50	"	20.0	ND	119	37-151			
1,2-Dichloropropane	23.7	2.50	"	20.0	ND	125	65-135			
2-Pentanone	24.7	2.50	"	20.0	ND	119	1-210			
Dibromomethane	24.8	2.50	"	20.0	ND	123	70-120			
						124	70-120			

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Client:	South Houston - Pretreatment	Reported:
Project:	South Houston WWTP (Pretreatment)	
Work Order:	23H2576	02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Matrix Spike (B3H5061-MS1)										
Source: 23H2269-03 Prepared & Analyzed: 22-Aug-23										
Bromodichloromethane	41.0	2.50	ug/L	20.0	15.9	126	35-155			
2-Chloroethyl vinyl ether	<2.50	2.50	"	20.0	<2.50		1-305	0		Q
cis-1,3-Dichloropropene	24.1	2.50	"	20.0	ND	121	1-227			
trans-1,3-Dichloropropene	23.4	2.50	"	20.0	ND	117	17-183			
1,1,2-Trichloroethane	25.2	2.50	"	20.0	ND	126	70-130			
Dibromochloromethane	31.5	2.50	"	20.0	6.33	126	53-149			
1,2-Dibromoethane	24.6	2.50	"	20.0	ND	123	70-120			Q
4-Methyl-2-Pentanone	27.7	10.0	"	20.0	ND	139	44.3-156			
Toluene	23.2	2.50	"	20.0	ND	116	70-130			
Tetrachloroethene	17.2	2.50	"	20.0	ND	86.2	70-130			
1,3-Dichloropropane	24.1	2.50	"	20.0	ND	121	70-120			Q
2-Hexanone	28.2	10.0	"	20.0	ND	141	39.5-157			
Chlorobenzene	21.8	2.50	"	20.0	ND	109	37-160			
1,1,1,2-Tetrachloroethane	23.7	2.50	"	20.0	ND	119	46-157			
Ethylbenzene	24.6	2.50	"	20.0	ND	123	37-162			
m,p-Xylene	49.5	10.0	"	40.0	ND	124	70-120			Q
o-Xylene	24.0	2.50	"	20.0	ND	120	70-120			
Styrene	24.8	2.50	"	20.0	ND	124	70-120			
Bromoform	23.0	2.50	"	20.0	ND	115	45-169			
Isopropylbenzene (Cumene)	24.9	2.50	"	20.0	ND	125	70-120			
1,1,2,2-Tetrachloroethane	24.2	2.50	"	20.0	ND	121	60-140			Q
1,2,3-Trichloropropane	24.0	2.50	"	20.0	ND	120	70-120			
Bromobenzene	24.2	2.50	"	20.0	ND	121	70-120			
Propylbenzene	24.8	2.50	"	20.0	ND	124	70-120			Q
2-Chlorotoluene	24.5	2.50	"	20.0	ND	122	70-120			Q
1,3,5-Trimethylbenzene	24.3	2.50	"	20.0	ND	121	70-120			Q
4-Chlorotoluene	24.7	2.50	"	20.0	ND	123	70-120			Q
tert-butyl Benzene	26.3	2.50	"	20.0	ND	132	70-120			Q
1,2,4-Trimethylbenzene	24.4	2.50	"	20.0	ND	122	70-120			Q
sec-butyl Benzene	24.3	2.50	"	20.0	ND	122	70-120			Q
p-Isopropyltoluene	23.7	2.50	"	20.0	ND	118	70-120			Q
1,3-Dichlorobenzene	24.4	2.50	"	20.0	ND	122	59-156			

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Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Matrix Spike (B3H5061-MS1)										
Source: 23H2269-03 Prepared & Analyzed: 22-Aug-23										
1,4-Dichlorobenzene										
24.4 2.50 ug/L 20.0 ND 122 18-190										
Benzyl Chloride										
21.9 2.50 " 20.0 ND 109 70-120										
n-butyl Benzene										
23.6 2.50 " 20.0 ND 118 70-120										
1,2-Dichlorobenzene										
23.8 2.50 " 20.0 ND 119 18-190										
1,2-Dibromo-3-chloropropane										
23.9 2.50 " 20.0 ND 120 60-140										
1,2,4-Trichlorobenzene										
21.8 2.50 " 20.0 ND 109 70-120										
Hexachlorobutadiene										
20.5 2.50 " 20.0 ND 102 70-120										
Naphthalene										
22.9 2.50 " 20.0 ND 114 60-140										
1,2,3-Trichlorobenzene										
21.8 2.50 " 20.0 ND 109 60-140										
Total Trihalomethanes										
144 10.0 " 80.0 45.0 124 35-155										
Total Xylenes										
73.5 7.50 " 60.0 ND 122 70-120										
<i>Surrogate: Dibromoiodomethane</i>										
33 " 30.0 109 70-130										
<i>Surrogate: 1,2-Dichloroethane-d4</i>										
31 " 30.0 103 70-130										
<i>Surrogate: Toluene-d8</i>										
29 " 30.0 98.0 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i>										
30 " 30.0 101 70-130										

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Matrix Spike Dup (B3H5061-MSD1)										
Source: 23H2269-03										
Prepared & Analyzed: 22-Aug-23										
Dichlorodifluoromethane	23.9	2.50	ug/L	20.0	ND	119	1.16-250	7.85	20	
Chloromethane	18.4	2.50	"	20.0	ND	92.2	1-273	7.62	60	
Vinyl Chloride	19.9	2.50	"	20.0	ND	99.4	5-195	8.71	66	
Bromomethane	8.37	2.50	"	20.0	ND	41.8	1-242	14.5	61	
Chloroethane	<2.50	2.50	"	20.0	<2.50		14-230	0	78	
Trichlorofluoromethane	21.8	2.50	"	20.0	ND	109	50-150	6.94	84	
Acetone	24.8	10.0	"	20.0	ND	124	11.5-191	3.60	27.6	
Acrolein	18.1	2.50	"	20.0	ND	90.4	40-160	2.35	60	
1,1-Dichloroethene	25.0	2.50	"	20.0	ND	125	1-234	5.26	32	
Carbon Disulfide	24.8	2.50	"	20.0	ND	124	7-120	6.68	20	
Acetonitrile	24.4	2.50	"	20.0	ND	122	70-120	5.30	20	Q
Methylene Chloride	24.2	2.50	"	20.0	ND	121	1-221	4.52	28	
Acrylonitrile	24.8	2.50	"	20.0	ND	124	40-160	3.91	60	
MTBE (Methyl tert-butyl ether)	25.2	2.50	"	20.0	ND	126	70-120	3.09	20	
trans-1,2-Dichloroethene	24.3	2.50	"	20.0	ND	121	54-156	8.89	45	
1,1-Dichloroethane	24.6	2.50	"	20.0	ND	123	59-155	3.08	40	
Vinyl Acetate	4.34	2.50	"	20.0	ND	21.7	60-140	4.06	20	
2,2-Dichloropropane	23.6	2.50	"	20.0	ND	118	70-120	4.40	20	
cis-1,2-Dichloroethene	24.6	2.50	"	20.0	ND	123	70-120	4.81	20	
Bromochloromethane	23.9	2.50	"	20.0	ND	120	70-120	7.99	20	
Chloroform	46.0	2.50	"	20.0	22.7	117	51-138	5.53	54	
2-Butanone	26.2	10.0	"	20.0	ND	131	32.5-154	3.35	21.6	
1,2-Dichloroethane	22.9	2.50	"	20.0	ND	114	49-155	8.17	49	
1,1,1-Trichloroethane	22.8	2.50	"	20.0	ND	114	70-130	6.81	36	
Tetrahydrofuran	21.4	2.50	"	20.0	ND	107	70-130	6.86	20	
Carbon Tetrachloride	22.6	2.50	"	20.0	ND	113	70-140	5.16	41	
1,1-Dichloropropene	23.5	2.50	"	20.0	ND	114	65-135	9.14	48	
Benzene	22.9	2.50	"	20.0	ND	117	70-120	5.19	20	
Trichloroethene	22.8	2.50	"	20.0	ND	115	37-151	3.85	61	
1,2-Dichloropropane	23.2	2.50	"	20.0	ND	114	1-210	2.04	55	
2-Pentanone	24.0	2.50	"	20.0	ND	116	70-120	2.75	20	
Dibromomethane	22.2	2.50	"	20.0	ND	111	70-120	10.7	20	

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Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Matrix Spike Dup (B3H5061-MSD1)										
Source: 23H2269-03										
Prepared & Analyzed: 22-Aug-23										
Bromodichloromethane	39.7	2.50	ug/L	20.0	15.9	119	35-155	3.24	56	
2-Chloroethyl vinyl ether	<2.50	2.50	"	20.0	<2.50	1-305	0	71		Q
cis-1,3-Dichloropropene	22.5	2.50	"	20.0	ND	112	1-227	7.03	58	
trans-1,3-Dichloropropene	22.3	2.50	"	20.0	ND	112	17-183	4.98	86	
1,1,2-Trichloroethane	22.4	2.50	"	20.0	ND	112	70-130	11.8	45	
Dibromochloromethane	29.8	2.50	"	20.0	6.33	117	53-149	5.58	50	
1,2-Dibromoethane	22.8	2.50	"	20.0	ND	114	70-120	7.42	20	
4-Methyl-2-Pentanone	27.0	2.50	"	20.0	ND	135	44.3-156	2.63	27.4	
Toluene	21.8	2.50	"	20.0	ND	109	70-130	6.39	41	
Tetrachloroethylene	15.8	2.50	"	20.0	ND	78.8	70-130	9.03	39	
1,3-Dichloropropane	22.9	2.50	"	20.0	ND	114	70-120	5.28	20	
2-Hexanone	26.6	10.0	"	20.0	ND	133	39.5-157	5.87	23.6	
Chlorobenzene	20.4	2.50	"	20.0	ND	102	37-160	6.16	53	
1,1,1,2-Tetrachloroethane	22.1	2.50	"	20.0	ND	110	46-157	7.20	20	
Ethylbenzene	23.2	2.50	"	20.0	ND	116	37-162	5.89	63	
m,p-Xylene	45.8	10.0	"	40.0	ND	115	70-120	7.64	20	
o-Xylene	22.3	2.50	"	20.0	ND	112	70-120	7.08	20	
Styrene	23.1	2.50	"	20.0	ND	115	70-120	7.15	20	
Bromoform	22.0	2.50	"	20.0	ND	110	45-169	4.48	42	
Isopropylbenzene (Cumene)	23.1	2.50	"	20.0	ND	115	70-120	7.67	20	
1,1,2,2-Tetrachloroethane	24.1	2.50	"	20.0	ND	120	60-140	0.332	61	
1,2,3-Trichloropropane	23.5	2.50	"	20.0	ND	117	70-120	2.40	20	
Bromobenzene	22.3	2.50	"	20.0	ND	112	70-120	7.91	20	
Propylbenzene	23.7	2.50	"	20.0	ND	119	70-120	4.53	20	
2-Chlorotoluene	23.3	2.50	"	20.0	ND	117	70-120	4.85	20	
1,3,5-Trimethylbenzene	23.5	2.50	"	20.0	ND	118	70-120	3.22	20	
4-Chlorotoluene	23.7	2.50	"	20.0	ND	118	70-120	4.18	20	
tert-butyl Benzene	25.4	2.50	"	20.0	ND	127	70-120	3.52	20	
1,2,4-Trimethylbenzene	23.0	2.50	"	20.0	ND	115	70-120	5.90	20	Q
sec-butyl Benzene	23.2	2.50	"	20.0	ND	116	70-120	4.58	20	
p-Isopropyltoluene	22.8	2.50	"	20.0	ND	114	70-120	3.65	20	
1,3-Dichlorobenzene	23.1	2.50	"	20.0	ND	115	59-156	5.44	43	

Envirodyne Laboratories, Inc.

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Laura Bonjonia For Tinesha Robinson, Client Services Representative



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch B3H5061 - Organics										
Matrix Spike Dup (B3H5061-MSD1)										
Source: 23H2269-03 Prepared & Analyzed: 22-Aug-23										
1,4-Dichlorobenzene	23.2	2.50	ug/L	20.0	ND	116	18-190	5.00	57	
Benzyl Chloride	20.9	2.50	"	20.0	ND	104	70-120	4.59	20	
n-butyl Benzene	22.9	2.50	"	20.0	ND	115	70-120	3.09	20	
1,2-Dichlorobenzene	22.8	2.50	"	20.0	ND	114	18-190	4.51	57	
1,2-Dibromo-3-chloropropane	24.2	2.50	"	20.0	ND	121	60-140	0.957	20	
1,2,4-Trichlorobenzene	20.8	2.50	"	20.0	ND	104	70-120	5.02	20	
Hexachlorobutadiene	20.6	2.50	"	20.0	ND	103	70-120	0.730	20	
Naphthalene	22.3	2.50	"	20.0	ND	112	60-140	2.52	20	
1,2,3-Trichlorobenzene	20.8	2.50	"	20.0	ND	104	60-140	5.02	20	
Total Trihalomethanes	138	10.0	"	80.0	45.0	116	35-155	4.72	20	
Total Xylenes	68.2	7.50	"	60.0	ND	114	70-120	7.45	20	
Surrogate: Dibromoformmethane	32		"	30.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	31		"	30.0		103	70-130			
Surrogate: Toluene-d8	30		"	30.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	30		"	30.0		99.1	70-130			

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Work Order: 23H2576

Reported:
02-Nov-23 21:43

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H4778 - Inorganics

Blank (B3H4778-BLK1)										Prepared & Analyzed: 17-Aug-23
Nitrate-N	<0.50	0.50	mg/L							
LCS (B3H4778-BS1)										Prepared & Analyzed: 17-Aug-23
Nitrate-N	3.16		mg/L	3.00		105	90-110			
Matrix Spike (B3H4778-MS1)		Source: 23H1902-03								Prepared & Analyzed: 17-Aug-23
Nitrate-N	2.98	0.50	mg/L	3.00	ND	99.3	80-120			
Matrix Spike Dup (B3H4778-MSD1)		Source: 23H1902-03								Prepared & Analyzed: 17-Aug-23
Nitrate-N	2.94	0.50	mg/L	3.00	ND	98.0	80-120	1.35	20	

Batch B3H5356 - Inorganics

Blank (B3H5356-BLK1)										Prepared & Analyzed: 24-Aug-23
Fluoride	<0.10	0.10	mg/L							
LCS (B3H5356-BS1)										Prepared & Analyzed: 24-Aug-23
Fluoride	0.46		mg/L	0.500		91.8	90-110			
Matrix Spike (B3H5356-MS1)		Source: 23H1851-01								Prepared & Analyzed: 24-Aug-23
Fluoride	1.37	0.20	mg/L	1.00	0.41	95.9	80-120			
Matrix Spike Dup (B3H5356-MSD1)		Source: 23H1851-01								Prepared & Analyzed: 24-Aug-23
Fluoride	1.36	0.20	mg/L	1.00	0.41	95.5	80-120	0.293	20	

Envirodyne Laboratories, Inc.

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Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Metals - Quality Control
Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch B3H4785 - Inorganics										
Blank (B3H4785-BLK1)										
Chromium, Hexavalent	<1.0	1.0	ug/L							Prepared & Analyzed: 17-Aug-23
LCS (B3H4785-BS1)										
Chromium, Hexavalent	49.7		ug/L	50.0		99.4	95-105			Prepared & Analyzed: 17-Aug-23
Matrix Spike (B3H4785-MS1)										
Chromium, Hexavalent	49.0	1.0	ug/L	50.0	ND	98.0	80-120			Source: 23H2417-01 Prepared & Analyzed: 17-Aug-23
Matrix Spike Dup (B3H4785-MSD1)										
Chromium, Hexavalent	49.1	1.0	ug/L	50.0	ND	98.2	80-120	0.204	20	Source: 23H2417-01 Prepared & Analyzed: 17-Aug-23

Envirodyne Laboratories, Inc.

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Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Envirodyne Laboratories, Inc
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Houston, TX 77099
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Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch B3H5508 - Metals - EPA 200.2

Blank (B3H5508-BLK1)

Prepared: 23-Aug-23 Analyzed: 24-Aug-23

Thallium	<0.5	0.5	ug/L							
Copper	<0.5	0.5	"							
Cadmium	<0.50	0.50	"							
Beryllium	<0.5	0.5	"							
Chromium	<2.0	2.0	"							
Barium	<2.0	2.0	"							
Lead	<0.5	0.5	"							
Arsenic	<0.5	0.5	"							
Nickel	<0.5	0.5	"							
Aluminum	<2.0	2.0	"							
Silver	<0.5	0.5	"							
Zinc	<2.0	2.0	"							
Antimony	<0.5	0.5	"							

Q

LCS (B3H5508-BS1)

Prepared: 23-Aug-23 Analyzed: 24-Aug-23

Silver	73	ug/L	75.0	97.1	85-115
Lead	70	"	75.0	92.8	85-115
Copper	70.5	"	75.0	94.0	85-115
Nickel	70.5	"	75.0	94.1	85-115
Chromium	74.2	"	75.0	98.9	85-115
Thallium	71.3	"	75.0	95.1	85-115
Cadmium	71	"	75.0	94.9	85-115
Beryllium	70.0	"	75.0	93.3	85-115
Barium	72.6	"	75.0	96.9	85-115
Arsenic	71.3	"	75.0	95.0	85-115
Aluminum	70.8	"	75.0	94.4	85-115
Zinc	70.7	"	75.0	94.3	85-115
Antimony	72.8	"	75.0	97.1	85-115

Q

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Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch B3H5508 - Metals - EPA 200.2										
Matrix Spike (B3H5508-MS1)										
Source: 23H2822-01 Prepared: 23-Aug-23 Analyzed: 24-Aug-23										
Thallium	98.7	0.5	ug/L	100	ND	98.7	70-130			
Silver	100	0.5	"	100	ND	99.5	70-130			
Nickel	99.1	0.5	"	100	1.35	97.8	70-130			
Beryllium	94.0	0.5	"	100	ND	94.0	70-130			
Lead	96	0.5	"	100	0.22	95.3	70-130			
Aluminum	103	2.0	"	100	2.34	100	70-130			
Copper	103	0.5	"	100	5.66	97.2	70-130			
Chromium	94.7	2.0	"	100	ND	94.7	70-130			
Arsenic	99.8	0.5	"	100	0.492	99.3	70-130			
Cadmium	98	0.50	"	100	ND	98.3	70-130			
Barium	267	2.0	"	100	0.614	267	70-130			
Zinc	167	2.0	"	100	79.0	87.8	70-130			
Antimony	104	0.5	"	100	0.618	104	70-130			
Matrix Spike Dup (B3H5508-MSD1)										
Source: 23H2822-01 Prepared: 23-Aug-23 Analyzed: 25-Aug-23										
Aluminum	90.2	2.0	ug/L	100	2.34	87.9	70-130	12.8	20	
Arsenic	96.2	0.5	"	100	0.492	95.7	70-130	3.60	20	
Barium	272	2.0	"	100	0.614	272	70-130	1.77	20	
Thallium	94.5	0.5	"	100	ND	94.5	70-130	4.33	20	
Lead	92	0.5	"	100	0.22	91.3	70-130	4.30	20	
Cadmium	94	0.50	"	100	ND	94.3	70-130	4.20	20	
Silver	95	0.5	"	100	ND	95.1	70-130	4.52	20	
Chromium	89.8	2.0	"	100	ND	89.8	70-130	5.35	20	
Copper	98.6	0.5	"	100	5.66	93.0	70-130	4.22	20	
Nickel	94.9	0.5	"	100	1.35	93.6	70-130	4.33	20	
Beryllium	89.4	0.5	"	100	ND	89.4	70-130	5.00	20	
Zinc	170	2.0	"	100	79.0	90.8	70-130	1.78	20	
Antimony	100	0.5	"	100	0.618	99.8	70-130	3.93	20	

Envirodyne Laboratories, Inc.

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Client: South Houston - Pretreatment
Project: South Houston WWTP (Pretreatment)
Work Order: 23H2576

Reported:
02-Nov-23 21:43

Notes and Definitions

- Q QC did not meet ELI acceptance criteria
- L Analyzed by third party laboratory
- ND Analyte NOT DETECTED at or above the reporting limit
- < Result is less than the RL
- a Analyte not available for TNI/NELAP accreditation
- n Not accredited

Envirodyne Laboratories, Inc.

A handwritten signature in blue ink that reads "Laura Bonjonia".

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Laura Bonjonia For Tinesha Robinson, Client Services Representative

Page 35 of 35



Envirodyne Laboratories, Inc.

11011 Brocklet, Ste. 230

Houston, Texas 77099-3543

Phone (281)568-7880 - Fax (281)568-8004

Page 1 Of 2

Name: City of South Houston

Address: PO Box 238

City: So. Houston, TX 77587

Contact: Alfred Gonzales

TCEQ Certification # T104704265

Analysis Request and Chain of Custody Record

Name: Project No. Client/Project Phone: 713-724-9913 Email:

Lab ID No.	Field Sample No./Identification	Date & Time	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED		Temp.	Time
					P	D.O.		
8-16-00 10:30	3-1	Lt/Amb	Liquid	Ice	BNA's, Pesticides, PCBs	<u>6.01</u>	<u>31.7°C</u>	<u>3-17-00</u>
8-16-00 10:30	500 ml/p		Liquid	Ice, HNO3	S, Sb, Cd, Ag, Pb, Hg, Cu, Zn, Ni, Be, Cr, Ti, Al, S			
8-16-00 10:30	500 ml/p		Liquid	Ice	Cr+6, Cr+3, Fluoride			
8-16-00 10:30	250 ml/p		Liquid	Ice, H2SO4	NO3-N			
8-16-00 10:00	250 ml/p		Liquid	Ice, NaOH	Total & Amenable CN	<u>-</u>		
8-16-00 12:00	250 ml/p		Liquid	Ice, NaOH	Total & Amenable CN	<u>-</u>		
8-16-00 11:00	250 ml/p		Liquid	Ice, NaOH	Total & Amenable CN	<u>-</u>		
8-16-00 16:00	250 ml/p		Liquid	Ice, NaOH	Total & Amenable CN	<u>-</u>		
					(Ink Fing)	(Ink Fing)		
Samplers: Signature: <u>Alfred Gonzales</u>	Relinquished by: (Signature) <u>Alfred Gonzales</u>	Date: 8-17-00	Received by: (Signature) <u>R. Wren</u>	Date: 8-17-00	Seal Intact? <u>Yes</u>			
Affiliation:	Relinquished by: (Signature)	Date: 8-17-00	Received by: (Signature)	Date: 8-17-00	Seal Intact? <u>Yes</u>			
Remarks:	Relinquished by: (Signature) <u>R. Wren</u>	Date: 8-17-00	Received by Lab: (Signature) <u>WDog</u>	Date: 8-17-00	Seal Intact? <u>Yes</u>			
	FLOW Meter Reading: Cl. Residual: Mr. Corrector: C. Corrected:	Arrival Temp.: Data Results To: 1. 2 417 2 17m. 1			Laboratory No. <u> </u>			
		Site Representative: <u> </u>		Date: _____				
		Time: _____		Time: _____				

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199365 (1) Instrument: ECD_15 Method: ORGANOCHLORINE PESTICIDES BY SW8081B

MBLK	Sample ID:	MBLK-199365	Units: ug/L		Analysis Date: 31-Aug-2023 01:06				
Client ID:			Run ID:	ECD_15_445281	SeqNo:	7520083	PrepDate:	23-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
4,4'-DDD		ND		0.10					
4,4'-DDE		ND		0.10					
4,4'-DDT		ND		0.10					
Aldrin		ND		0.050					
alpha-BHC		ND		0.050					
beta-BHC		ND		0.050					
Chlordane		ND		0.50					
delta-BHC		ND		0.050					
Dieldrin		ND		0.10					
Endosulfan I		ND		0.050					
Endosulfan II		ND		0.10					
Endosulfan sulfate		ND		0.10					
Endrin		ND		0.10					
Endrin aldehyde		ND		0.10					
Endrin ketone		ND		0.10					
gamma-BHC		ND		0.050					
Heptachlor		ND		0.050					
Heptachlor epoxide		ND		0.050					
Methoxychlor		ND		0.50					
Toxaphene		ND		0.50					
Surr: Decachlorobiphenyl	0.1984	0	0.2	0	99.2	54.9 - 145			
Surr: Tetrachloro-m-xylene	0.2234	0	0.2	0	112	51.5 - 142			

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199365 (1)

Instrument: ECD_15

Method: ORGANOCHLORINE PESTICIDES BY SW8081B

LCS	Sample ID:	Units: ug/L		Analysis Date: 31-Aug-2023 01:44				
Client ID:		Run ID:	ECD_15_445281	SeqNo:	7520084	PrepDate:	23-Aug-2023	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
4,4'-DDD	0.7144	0.10	0.5	0	143	53 - 144		
4,4'-DDE	0.6909	0.10	0.5	0	138	55 - 144		
4,4'-DDT	0.5385	0.10	0.5	0	108	53 - 149		
Aldrin	0.3311	0.050	0.25	0	132	47 - 141		
alpha-BHC	0.3414	0.050	0.25	0	137	51 - 141		
beta-BHC	0.3198	0.050	0.25	0	128	58 - 144		
delta-BHC	0.3401	0.050	0.25	0	136	48 - 146		
Dieldrin	0.7067	0.10	0.5	0	141	56 - 144		
Endosulfan I	0.2839	0.050	0.25	0	114	55 - 141		
Endosulfan II	0.5754	0.10	0.5	0	115	57 - 144		
Endosulfan sulfate	0.7118	0.10	0.5	0	142	58 - 145		
Endrin	0.8278	0.10	0.5	0	166	60 - 163		S
Endrin aldehyde	0.7201	0.10	0.5	0	144	59 - 158		
Endrin ketone	0.6887	0.10	0.5	0	138	59 - 154		
gamma-BHC	0.3311	0.050	0.25	0	132	53 - 142		
Heptachlor	0.2289	0.050	0.25	0	91.6	51 - 144		
Heptachlor epoxide	0.261	0.050	0.25	0	104	55 - 142		
Methoxychlor	2.732	0.50	2.5	0	109	59 - 150		
Surr: Decachlorobiphenyl	0.2001	0	0.2	0	100	54.9 - 145		
Surr: Tetrachloro-m-xylene	0.2487	0	0.2	0	124	51.5 - 142		

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199365 (1)

Instrument: ECD_15

Method: ORGANOCHLORINE PESTICIDES BY SW8081B

LCSD	Sample ID:	LCSD-199365		Units: ug/L		Analysis Date: 31-Aug-2023 02:04				
Client ID:				Run ID:	ECD_15_445281	SeqNo:	7520085	PrepDate:	23-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
4,4'-DDD		0.7018	0.10	0.5	0	140	53 - 144	0.7144	1.79	20
4,4'-DDE		0.6757	0.10	0.5	0	135	55 - 144	0.6909	2.23	20
4,4'-DDT		0.5694	0.10	0.5	0	114	53 - 149	0.5385	5.57	20
Aldrin		0.336	0.050	0.25	0	134	47 - 141	0.3311	1.48	20
alpha-BHC		0.3474	0.050	0.25	0	139	51 - 141	0.3414	1.76	20
beta-BHC		0.3246	0.050	0.25	0	130	58 - 144	0.3198	1.46	20
delta-BHC		0.3523	0.050	0.25	0	141	48 - 146	0.3401	3.55	20
Dieldrin		0.6904	0.10	0.5	0	138	56 - 144	0.7067	2.34	20
Endosulfan I		0.2783	0.050	0.25	0	111	55 - 141	0.2839		2
Endosulfan II		0.5729	0.10	0.5	0	115	57 - 144	0.5754	0.437	20
Endosulfan sulfate		0.7154	0.10	0.5	0	143	58 - 145	0.7118	0.497	20
Endrin		0.8881	0.10	0.5	0	178	60 - 163	0.8278	7.03	20
Endrin aldehyde		0.6882	0.10	0.5	0	138	59 - 158	0.7201	4.52	20
Endrin ketone		0.6768	0.10	0.5	0	135	59 - 154	0.6887	1.74	20
gamma-BHC		0.3406	0.050	0.25	0	136	53 - 142	0.3311	2.82	20
Heptachlor		0.2452	0.050	0.25	0	98.1	51 - 144	0.2289	6.86	20
Heptachlor epoxide		0.2724	0.050	0.25	0	109	55 - 142	0.261	4.3	20
Methoxychlor		2.882	0.50	2.5	0	115	59 - 150	2.732	5.35	20
Surr: Decachlorobiphenyl		0.2071	0	0.2	0	104	54.9 - 145	0.2001	3.47	20
Surr: Tetrachloro-m-xylene		0.2433	0	0.2	0	122	51.5 - 142	0.2487	2.2	20

The following samples were analyzed in this batch: HS23081351-01

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199366 (0)

Instrument: ECD_7

Method: PCBS BY SW8082A

MBLK	Sample ID:	MBLK-199366	Units:	ug/L	Analysis Date: 28-Aug-2023 19:21		
Client ID:			Run ID:	ECD_7_445102	SeqNo:	7515877	PrepDate: 23-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit RPD Ref Value %RPD Limit Qual
Aroclor 1016		ND	0.500				
Aroclor 1221		ND	0.500				
Aroclor 1232		ND	0.500				
Aroclor 1242		ND	0.500				
Aroclor 1248		ND	0.500				
Aroclor 1254		ND	0.500				
Aroclor 1260		ND	0.500				
PCBs (Total)		ND	0.500				
Surr: Decachlorobiphenyl		0.2014	0.0500	0.2	0	101	54 - 140
Surr: Tetrachloro-m-xylene		0.2481	0.0500	0.2	0	124	53 - 137

LCS	Sample ID:	LCS-199366	Units:	ug/L	Analysis Date: 28-Aug-2023 19:46		
Client ID:			Run ID:	ECD_7_445102	SeqNo:	7515878	PrepDate: 23-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit RPD Ref Value %RPD Limit Qual
Aroclor 1016		5.619	0.500	5	0	112	54 - 138
Aroclor 1260		5.687	0.500	5	0	114	57 - 136
PCBs (Total)		11.31	0.500	10	0	113	57 - 136
Surr: Decachlorobiphenyl		0.2147	0.0500	0.2	0	107	54 - 140
Surr: Tetrachloro-m-xylene		0.2461	0.0500	0.2	0	123	53 - 137

LCSD	Sample ID:	LCSD-199366	Units:	ug/L	Analysis Date: 28-Aug-2023 19:59		
Client ID:			Run ID:	ECD_7_445102	SeqNo:	7515879	PrepDate: 23-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit RPD Ref Value %RPD Limit Qual
Aroclor 1016		5.576	0.500	5	0	112	54 - 138
Aroclor 1260		5.556	0.500	5	0	111	57 - 136
PCBs (Total)		11.13	0.500	10	0	111	57 - 136
Surr: Decachlorobiphenyl		0.2123	0.0500	0.2	0	106	54 - 140
Surr: Tetrachloro-m-xylene		0.2476	0.0500	0.2	0	124	53 - 137

The following samples were analyzed in this batch: HS23081351-01

Client: Envirodyne Laboratories, Inc.
Project: 23H2576
WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199463 (0) **Instrument:** HG04 **Method:** MERCURY BY E245.1, R3.0, 1994

MLBK	Sample ID:	MLBK-199463	Units: mg/L		Analysis Date: 24-Aug-2023 15:01				
Client ID:			Run ID:	HG04_444783	SeqNo:	7508440	PrepDate:	24-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		ND	0.000200						
LCS	Sample ID:	LCS-199463	Units: mg/L		Analysis Date: 24-Aug-2023 15:05				
Client ID:			Run ID:	HG04_444783	SeqNo:	7508441	PrepDate:	24-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00469	0.000200	0.005	0	93.8	85 - 115		
MS	Sample ID:	HS23081330-01MS	Units: mg/L		Analysis Date: 24-Aug-2023 15:08				
Client ID:			Run ID:	HG04_444783	SeqNo:	7508443	PrepDate:	24-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00494	0.000200	0.005	0.000009	98.6	70 - 130		
MSD	Sample ID:	HS23081330-01MSD	Units: mg/L		Analysis Date: 24-Aug-2023 15:10				
Client ID:			Run ID:	HG04_444783	SeqNo:	7508444	PrepDate:	24-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00487	0.000200	0.005	0.000009	97.2	70 - 130	0.00494	1.43 20

The following samples were analyzed in this batch: HS23081351-01

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199317 (0)

Instrument: SV-4

Method: SEMIVOLATILE

MBLK	Sample ID:	MBLK-199317	Units:	ug/L	Analysis Date: 22-Aug-2023 16:50		
Client ID:			Run ID:	SV-4_444591	SeqNo:	7505581	PrepDate: 22-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit RPD Ref Value %RPD Limit Qual
1,2,4-Trichlorobenzene		ND		5.00			
1,2-Dichlorobenzene		ND		5.00			
1,2-Diphenylhydrazine		ND		5.00			
1,3-Dichlorobenzene		ND		5.00			
1,4-Dichlorobenzene		ND		5.00			
2,4,6-Trichlorophenol		ND		5.00			
2,4-Dichlorophenol		ND		5.00			
2,4-Dimethylphenol		ND		5.00			
2,4-Dinitrophenol		ND		5.00			
2,4-Dinitrotoluene		ND		5.00			
2,6-Dinitrotoluene		ND		5.00			
2-Chloronaphthalene		ND		5.00			
2-Chlorophenol		ND		5.00			
2-Nitrophenol		ND		5.00			
3,3'-Dichlorobenzidine		ND		5.00			
4,6-Dinitro-2-methylphenol		ND		5.00			
4-Bromophenyl phenyl ether		ND		5.00			
4-Chloro-3-methylphenol		ND		5.00			
4-Chlorophenyl phenyl ether		ND		5.00			
4-Nitrophenol		ND		5.00			
Acenaphthene		ND		5.00			
Acenaphthylene		ND		5.00			
Anthracene		ND		5.00			
Benz(a)anthracene		ND		5.00			
Benzidine		ND		5.00			
Benzo(a)pyrene		ND		5.00			
Benzo(b)fluoranthene		ND		5.00			
Benzo(g,h,i)perylene		ND		5.00			
Benzo(k)fluoranthene		ND		5.00			
Bis(2-chloroethoxy)methane		ND		5.00			
Bis(2-chloroethyl)ether		ND		5.00			
Bis(2-chloroisopropyl)ether		ND		5.00			
Bis(2-ethylhexyl)phthalate		ND		5.00			
Butyl benzyl phthalate		ND		5.00			

Client: Enviodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199317 (0) Instrument: SV-4 Method: SEMIVOLATILE

MLBK	Sample ID:	MLBK-199317	Units: ug/L		Analysis Date: 22-Aug-2023 16:50				
			Run ID:	SeqNo:	PrepDate:	DF:	SPK Ref Value	%REC	Control Limit
Analyte	Result	PQL	SPK Val						
Chrysene	ND	5.00							
Dibenz(a,h)anthracene	ND	5.00							
Diethyl phthalate	ND	5.00							
Dimethyl phthalate	ND	5.00							
Di-n-butyl phthalate	ND	5.00							
Di-n-octyl phthalate	ND	5.00							
Fluoranthene	ND	5.00							
Fluorene	ND	5.00							
Hexachlorobenzene	ND	5.00							
Hexachlorobutadiene	ND	5.00							
Hexachlorocyclopentadiene	ND	5.00							
Hexachloroethane	ND	5.00							
Indeno(1,2,3-cd)pyrene	ND	5.00							
Isophorone	ND	5.00							
Naphthalene	ND	5.00							
Nitrobenzene	ND	5.00							
N-Nitrosodimethylamine	ND	5.00							
N-Nitrosodi-n-propylamine	ND	5.00							
N-Nitrosodiphenylamine	ND	5.00							
Pentachlorophenol	ND	5.00							
Phenanthrene	ND	5.00							
Phenol	ND	5.00							
Pyrene	ND	5.00							
Surr: 2,4,6-Tribromophenol	63.18	5.00	100	0	63.2	42 - 124			
Surr: 2-Fluorobiphenyl	64.83	5.00	100	0	64.8	48 - 120			
Surr: 2-Fluorophenol	54.07	5.00	100	0	54.1	20 - 120			
Surr: 4-Terphenyl-d14	65.9	5.00	100	0	65.9	51 - 135			
Surr: Nitrobenzene-d5	66.08	5.00	100	0	66.1	41 - 120			
Surr: Phenol-d6	63.45	5.00	100	0	63.5	20 - 120			

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199317 (0)

Instrument: SV-4

Method: SEMIVOLATILE

LCS	Sample ID:	Units: ug/L		Analysis Date: 22-Aug-2023 17:11				
Client ID:		Run ID: SV-4_444591		SeqNo: 7505582		PrepDate: 22-Aug-2023		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	71.72	5.00	100	0	71.7	54 - 118		
1,2-Dichlorobenzene	74.45	5.00	100	0	74.4	49 - 115		
1,2-Diphenylhydrazine	84.89	5.00	100	0	84.9	57 - 134		
1,3-Dichlorobenzene	71.3	5.00	100	0	71.3	56 - 115		
1,4-Dichlorobenzene	72.58	5.00	100	0	72.6	56 - 115		
2,4,6-Trichlorophenol	69.52	5.00	100	0	69.5	56 - 115		
2,4-Dichlorophenol	73.16	5.00	100	0	73.2	53 - 115		
2,4-Dimethylphenol	76.08	5.00	100	0	76.1	53 - 115		
2,4-Dinitrophenol	70.51	5.00	100	0	70.5	47 - 115		
2,4-Dinitrotoluene	73.42	5.00	100	0	73.4	56 - 115		
2,6-Dinitrotoluene	72.09	5.00	100	0	72.1	57 - 115		
2-Chloronaphthalene	100.7	5.00	100	0	101	65 - 125		
2-Chlorophenol	74.45	5.00	100	0	74.4	54 - 115		
2-Nitrophenol	71.71	5.00	100	0	71.7	53 - 115		
3,3'-Dichlorobenzidine	80.34	5.00	100	0	80.3	25 - 115		
4,6-Dinitro-2-methylphenol	84.51	5.00	100	0	84.5	51 - 121		
4-Bromophenyl phenyl ether	74.36	5.00	100	0	74.4	49 - 115		
4-Chloro-3-methylphenol	79.87	5.00	100	0	79.9	51 - 115		
4-Chlorophenyl phenyl ether	69.81	5.00	100	0	69.8	56 - 115		
4-Nitrophenol	70.92	5.00	100	0	70.9	26 - 133		
Acenaphthene	73.6	5.00	100	0	73.6	57 - 115		
Acenaphthylene	73.33	5.00	100	0	73.3	57 - 118		
Anthracene	75.74	5.00	100	0	75.7	65 - 115		
Benz(a)anthracene	76.63	5.00	100	0	76.6	53 - 115		
Benzidine	22.1	5.00	100	0	22.1	10 - 115		
Benzo(a)pyrene	73.82	5.00	100	0	73.8	57 - 115		
Benzo(b)fluoranthene	81.28	5.00	100	0	81.3	54 - 117		
Benzo(g,h,i)perylene	74.77	5.00	100	0	74.8	56 - 115		
Benzo(k)fluoranthene	61.09	5.00	100	0	61.1	50 - 115		
Bis(2-chloroethoxy)methane	83.74	5.00	100	0	83.7	54 - 115		
Bis(2-chloroethyl)ether	72.58	5.00	100	0	72.6	56 - 115		
Bis(2-chloroisopropyl)ether	66.66	5.00	100	0	66.7	48 - 115		
Bis(2-ethylhexyl)phthalate	79.99	5.00	100	0	80.0	50 - 115		
Butyl benzyl phthalate	79.36	5.00	100	0	79.4	51 - 115		

Client: Enviodyne Laboratories, Inc.
Project: 23H2576
WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199317 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILE

LCS	Sample ID:	Units: ug/L		Analysis Date: 22-Aug-2023 17:11					
Client ID:		Run ID: SV-4_444591		SeqNo: 7505582	PrepDate: 22-Aug-2023	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	
Chrysene	76.32	5.00	100	0	76.3	52 - 120			
Dibenz(a,h)anthracene	72.96	5.00	100	0	73.0	56 - 115			
Diethyl phthalate	73.48	5.00	100	0	73.5	57 - 115			
Dimethyl phthalate	71.69	5.00	100	0	71.7	56 - 115			
Di-n-butyl phthalate	76.17	5.00	100	0	76.2	54 - 115			
Di-n-octyl phthalate	74.38	5.00	100	0	74.4	49 - 115			
Fluoranthene	73.89	5.00	100	0	73.9	58 - 115			
Fluorene	71.32	5.00	100	0	71.3	56 - 115			
Hexachlorobenzene	72.01	5.00	100	0	72.0	54 - 115			
Hexachlorobutadiene	70.37	5.00	100	0	70.4	51 - 115			
Hexachlorocyclopentadiene	60.82	5.00	100	0	60.8	48 - 115			
Hexachloroethane	72.65	5.00	100	0	72.7	54 - 115			
Indeno(1,2,3-cd)pyrene	72.93	5.00	100	0	72.9	51 - 115			
Isophorone	72.16	5.00	100	0	72.2	55 - 115			
Naphthalene	74.12	5.00	100	0	74.1	55 - 115			
Nitrobenzene	71.8	5.00	100	0	71.8	40 - 124			
N-Nitrosodimethylamine	69.22	5.00	100	0	69.2	42 - 115			
N-Nitrosodi-n-propylamine	77.18	5.00	100	0	77.2	55 - 119			
N-Nitrosodiphenylamine	76.18	5.00	100	0	76.2	52 - 115			
Pentachlorophenol	76.77	5.00	100	0	76.8	45 - 125			
Phenanthrene	72.63	5.00	100	0	72.6	57 - 115			
Phenol	67.75	5.00	100	0	67.8	38 - 115			
Pyrene	80.44	5.00	100	0	80.4	54 - 119			
Surr: 2,4,6-Tribromophenol	63.51	5.00	100	0	63.5	42 - 124			
Surr: 2-Fluorobiphenyl	65.95	5.00	100	0	65.9	48 - 120			
Surr: 2-Fluorophenol	59.33	5.00	100	0	59.3	20 - 120			
Surr: 4-Terphenyl-d14	67.01	5.00	100	0	67.0	51 - 135			
Surr: Nitrobenzene-d5	64.23	5.00	100	0	64.2	41 - 120			
Surr: Phenol-d6	65.55	5.00	100	0	65.6	20 - 120			

Client: Enviodyne Laboratories, Inc.
Project: 23H2576
WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199317 (0)

Instrument: SV-4

Method: SEMIVOLATILE

LCSD	Sample ID:	LCSD-199317		Units: ug/L		Analysis Date: 22-Aug-2023 17:33			
Client ID:		Run ID: SV-4_444591		SeqNo: 7505583		PrepDate: 22-Aug-2023		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene		71.56	5.00	100	0	71.6	54 - 118	71.72	0.227 20
1,2-Dichlorobenzene		73.98	5.00	100	0	74.0	49 - 115	74.45	0.629 20
1,2-Diphenylhydrazine		85.78	5.00	100	0	85.8	57 - 134	84.89	1.03 20
1,3-Dichlorobenzene		70.74	5.00	100	0	70.7	56 - 115	71.3	0.785 20
1,4-Dichlorobenzene		72.03	5.00	100	0	72.0	56 - 115	72.58	0.759 20
2,4,6-Trichlorophenol		68.43	5.00	100	0	68.4	56 - 115	69.52	1.58 20
2,4-Dichlorophenol		72.54	5.00	100	0	72.5	53 - 115	73.16	0.857 20
2,4-Dimethylphenol		77.01	5.00	100	0	77.0	53 - 115	76.08	1.22 20
2,4-Dinitrophenol		69.68	5.00	100	0	69.7	47 - 115	70.51	1.18 20
2,4-Dinitrotoluene		72.24	5.00	100	0	72.2	56 - 115	73.42	1.62 20
2,6-Dinitrotoluene		71.51	5.00	100	0	71.5	57 - 115	72.09	0.8 20
2-Chloronaphthalene		97.42	5.00	100	0	97.4	65 - 125	100.7	3.31 20
2-Chlorophenol		74.45	5.00	100	0	74.4	54 - 115	74.45	0.00505 20
2-Nitrophenol		72.85	5.00	100	0	72.9	53 - 115	71.71	1.57 20
3,3'-Dichlorobenzidine		76.39	5.00	100	0	76.4	25 - 115	80.34	5.04 20
4,6-Dinitro-2-methylphenol		85.39	5.00	100	0	85.4	51 - 121	84.51	1.03 20
4-Bromophenyl phenyl ether		73.61	5.00	100	0	73.6	49 - 115	74.36	1.01 20
4-Chloro-3-methylphenol		77.53	5.00	100	0	77.5	51 - 115	79.87	2.97 20
4-Chlorophenyl phenyl ether		67.79	5.00	100	0	67.8	56 - 115	69.81	2.94 20
4-Nitrophenol		83.9	5.00	100	0	83.9	26 - 133	70.92	16.8 20
Acenaphthene		72.25	5.00	100	0	72.3	57 - 115	73.6	1.84 20
Acenaphthylene		73.92	5.00	100	0	73.9	57 - 118	73.33	0.803 20
Anthracene		75.95	5.00	100	0	76.0	65 - 115	75.74	0.274 20
Benz(a)anthracene		75.45	5.00	100	0	75.5	53 - 115	76.63	1.54 20
Benzidine		21.51	5.00	100	0	21.5	10 - 115	22.1	2.68 20
Benzo(a)pyrene		74.13	5.00	100	0	74.1	57 - 115	73.82	0.418 20
Benzo(b)fluoranthene		79.56	5.00	100	0	79.6	54 - 117	81.28	2.13 20
Benzo(g,h,i)perylene		74.07	5.00	100	0	74.1	56 - 115	74.77	0.938 20
Benzo(k)fluoranthene		64.23	5.00	100	0	64.2	50 - 115	61.09	5 20
Bis(2-chloroethoxy)methane		84.14	5.00	100	0	84.1	54 - 115	83.74	0.48 20
Bis(2-chloroethyl)ether		74.03	5.00	100	0	74.0	56 - 115	72.58	1.97 20
Bis(2-chloroisopropyl)ether		66.15	5.00	100	0	66.2	48 - 115	66.66	0.772 20
Bis(2-ethylhexyl)phthalate		80.66	5.00	100	0	80.7	50 - 115	79.99	0.836 20
Butyl benzyl phthalate		80.1	5.00	100	0	80.1	51 - 115	79.36	0.927 20

Client: Envirodyne Laboratories, Inc.
 Project: 23H2576
 WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199317 (0)

Instrument: SV-4

Method: SEMIVOLATILE

LCSD	Sample ID:	LCSD-199317		Units: ug/L		Analysis Date: 22-Aug-2023 17:33			
Client ID:		Run ID: SV-4_444591		SeqNo: 7505583		PrepDate: 22-Aug-2023		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Chrysene		77.13	5.00	100	0	77.1	52 - 120	76.32	1.06 20
Dibenz(a,h)anthracene		72.42	5.00	100	0	72.4	56 - 115	72.96	0.744 20
Diethyl phthalate		72.42	5.00	100	0	72.4	57 - 115	73.48	1.45 20
Dimethyl phthalate		70.27	5.00	100	0	70.3	56 - 115	71.69	2 20
Di-n-butyl phthalate		76.02	5.00	100	0	76.0	54 - 115	76.17	0.206 20
Di-n-octyl phthalate		77.29	5.00	100	0	77.3	49 - 115	74.38	3.84 20
Fluoranthene		74.35	5.00	100	0	74.4	58 - 115	73.89	0.62 20
Fluorene		69.99	5.00	100	0	70.0	56 - 115	71.32	1.88 20
Hexachlorobenzene		70.78	5.00	100	0	70.8	54 - 115	72.01	1.72 20
Hexachlorobutadiene		69.99	5.00	100	0	70.0	51 - 115	70.37	0.545 20
Hexachlorocyclopentadiene		64.77	5.00	100	0	64.8	48 - 115	60.82	6.28 20
Hexachloroethane		72.57	5.00	100	0	72.6	54 - 115	72.65	0.118 20
Indeno(1,2,3-cd)pyrene		72.4	5.00	100	0	72.4	51 - 115	72.93	0.727 20
Isophorone		72	5.00	100	0	72.0	55 - 115	72.16	0.228 20
Naphthalene		74.19	5.00	100	0	74.2	55 - 115	74.12	0.0993 20
Nitrobenzene		74.96	5.00	100	0	75.0	40 - 124	71.8	4.31 20
N-Nitrosodimethylamine		70.9	5.00	100	0	70.9	42 - 115	69.22	2.41 20
N-Nitrosodi-n-propylamine		77.19	5.00	100	0	77.2	55 - 119	77.18	0.0098 20
N-Nitrosodiphenylamine		75.11	5.00	100	0	75.1	52 - 115	76.18	1.42 20
Pentachlorophenol		76.43	5.00	100	0	76.4	45 - 125	76.77	0.436 20
Phenanthrene		72.79	5.00	100	0	72.8	57 - 115	72.63	0.225 20
Phenol		67.93	5.00	100	0	67.9	38 - 115	67.75	0.265 20
Pyrene		81.94	5.00	100	0	81.9	54 - 119	80.44	1.85 20
Surr: 2,4,6-Tribromophenol		61.39	5.00	100	0	61.4	42 - 124	63.51	3.4 20
Surr: 2-Fluorobiphenyl		65.45	5.00	100	0	65.5	48 - 120	65.95	0.75 20
Surr: 2-Fluorophenol		60.57	5.00	100	0	60.6	20 - 120	59.33	2.08 20
Surr: 4-Terphenyl-d14		66.24	5.00	100	0	66.2	51 - 135	67.01	1.16 20
Surr: Nitrobenzene-d5		65.2	5.00	100	0	65.2	41 - 120	64.23	1.49 20
Surr: Phenol-d6		67.88	5.00	100	0	67.9	20 - 120	65.55	3.49 20

The following samples were analyzed in this batch: HS23081351-01

Client: Enviodyne Laboratories, Inc.
Project: 23H2576
WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199458 (0) Instrument: UV-2450 Method: PHENOLICS BY E420.1,1978

MBLK	Sample ID:	MBLK-199458	Units:	mg/L	Analysis Date: 24-Aug-2023 11:48			
Client ID:			Run ID:	UV-2450_444737	SeqNo:	7507478	PrepDate:	24-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual

Phenolics, Total Recoverable ND 0.0500

LCS	Sample ID:	LCS-199458	Units:	mg/L	Analysis Date: 24-Aug-2023 11:48			
Client ID:			Run ID:	UV-2450_444737	SeqNo:	7507477	PrepDate:	24-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual

Phenolics, Total Recoverable 0.46 0.0500 0.5 0 92.0 84.6 - 104

MS	Sample ID:	HS23081351-02MS	Units:	mg/L	Analysis Date: 24-Aug-2023 11:48			
Client ID: Effluent			Run ID:	UV-2450_444737	SeqNo:	7507475	PrepDate:	24-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual

Phenolics, Total Recoverable 0.57 0.0500 0.5 0.052 104 80 - 120

MSD	Sample ID:	HS23081351-02MSD	Units:	mg/L	Analysis Date: 24-Aug-2023 11:48			
Client ID: Effluent			Run ID:	UV-2450_444737	SeqNo:	7507476	PrepDate:	24-Aug-2023 DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD Limit Qual

Phenolics, Total Recoverable 0.571 0.0500 0.5 0.052 104 80 - 120 0.57 0.175 20

The following samples were analyzed in this batch: HS23081351-02 HS23081351-03 HS23081351-04 HS23081351-05

Client: Envirodyne Laboratories, Inc.
Project: 23H2576
WorkOrder: HS23081351

QC BATCH REPORT

Batch ID: 199530 (0) Instrument: UV-2450 Method: CYANIDE BY SM 4500CN E&G-2011

MLBK	Sample ID:	MLBK-199530	Units: mg/L		Analysis Date: 25-Aug-2023 15:15				
Client ID:			Run ID:	UV-2450_444941	SeqNo:	7512011	PrepDate:	25-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		ND	0.00500						
Cyanide, Amenable to Chlorination		ND	0.00500						

LCS	Sample ID:	LCS-199530	Units: mg/L		Analysis Date: 25-Aug-2023 15:15				
Client ID:			Run ID:	UV-2450_444941	SeqNo:	7512010	PrepDate:	25-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		0.208	0.00500	0.2	0	104	85 - 115		
Cyanide, Amenable to Chlorination		0.208	0.00500	0.2	0	104	85 - 115		

MS	Sample ID:	HS23081332-01MS	Units: mg/L		Analysis Date: 25-Aug-2023 15:15				
Client ID:			Run ID:	UV-2450_444941	SeqNo:	7512008	PrepDate:	25-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		0.199	0.00500	0.2	0.003	98.0	80 - 120		
Cyanide, Amenable to Chlorination		0.199	0.00500	0.2	0	99.5	80 - 120		

MSD	Sample ID:	HS23081332-01MSD	Units: mg/L		Analysis Date: 25-Aug-2023 15:15				
Client ID:			Run ID:	UV-2450_444941	SeqNo:	7512009	PrepDate:	25-Aug-2023	DF: 1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		0.203	0.00500	0.2	0.003	100	80 - 120	0.199	1.99 20
Cyanide, Amenable to Chlorination		0.203	0.00500	0.2	0	102	80 - 120	0.199	1.99 20

The following samples were analyzed in this batch: HS23081351-02 HS23081351-03 HS23081351-04 HS23081351-05

Attachment 8

A. 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)

Pollutant	Concentration	MAL	Units	Date
See Attachment 8				
TOTAL ALUMINUM	33.4	2.5	(ug/l)	2-15-24
TOTAL ARSENIC	0.6	0.5	(ug/l)	2-15-24
TOTAL BARIUM	36.0	3.0	(ug/l)	2-15-24
TOTAL COPPER	15.3	2.0	(ug/l)	2-15-24
TOTAL NICKEL	12.7	2.0	(ug/l)	2-15-24
TOTAL ZINC	56.1	5.0	(ug/l)	2-15-24
NITRATE-N	21500	100	(ug/l)	2-15-24
TOTAL ALUMINUM	24	2.5	(ug/l)	8-17-23
TOTAL ARSENIC	0.9	0.5	(ug/l)	8-17-23
TOTAL BARIUM	22.1	3.0	(ug/l)	8-17-23
TOTAL COPPER	23.1	2.0	(ug/l)	8-17-23
TOTAL NICKEL	12.2	2.0	(ug/l)	8-17-23
TOTAL ZINC	80.5	5.0	(ug/l)	8-17-23
NITRATE-N	25800	500	(ug/l)	8-17-23
Chloroform	52.7	2.5	(ug/l)	8-17-23
Bromodichloromethane	16.2	2.5	(ug/l)	8-17-23
Dibromochloromethane	3.47	2.5	(ug/l)	8-17-23
Total Trihalomethanes	72.3	10.0	(ug/l)	8-17-23
Cyanide, Amenable	0.009	0.005	(ug/l)	8-17-23
Cyanide, Total	0.009	0.005	(ug/l)	8-17-23
TOTAL ALUMINUM	24.5	2.5	(ug/l)	2-21-23

Pollutant	Concentration	MAL	Units	Date
TOTAL ARSENIC	1.3	0.5	(ug/l)	2-21-23
TOTAL BARIUM	30.1	3.0	(ug/l)	2-21-23
TOTAL CADMIUM	2.0	1.0	(ug/l)	2-21-23
TOTAL COPPER	19.1	2.0	(ug/l)	2-21-23
TOTAL NICKEL	16.2	2.0	(ug/l)	2-21-23
TOTAL ZINC	81.8	5.0	(ug/l)	2-21-23
Cyanide, Amenable	0.011	0.005	(ug/l)	2-21-23
Cyanide, Total	0.011	0.005	(ug/l)	2-21-23
TOTAL ALUMINUM	21.5	2.5	(ug/l)	8-16-22
TOTAL ARSENIC	1.5	0.5	(ug/l)	8-16-22
TOTAL BARIUM	23.6	3.0	(ug/l)	8-16-22
TOTAL COPPER	43.1	2.0	(ug/l)	8-16-22
TOTAL LEAD	0.6	<0.5	(ug/l)	8-16-22
TOTAL NICKEL	7.0	2.0	(ug/l)	8-16-22
TOTAL ZINC	234.0	5.0	(ug/l)	8-16-22
NITRATE-N	24400	100	(ug/l)	8-16-22
CHLOROFORM	47.4	10.0	(ug/l)	8-16-22
DICHLOROBROMOMETHANE	14.5	10.0	(ug/l)	8-16-22
TOTAL TRIHALOMETHANES	61.9	10.0	(ug/l)	8-16-22
TOTAL ALUMINUM	25.8	2.5	(ug/l)	2-9-22
TOTAL ARSENIC	1.3	0.5	(ug/l)	2-9-22
TOTAL BARIUM	34.3	3.0	(ug/l)	2-9-22
TOTAL COPPER	13.1	3.0	(ug/l)	2-9-22
TOTAL NICKEL	7.1	2.0	(ug/l)	2-9-22
TOTAL ZINC	89.2	5.0	(ug/l)	2-9-22
NITRATE-N	19700	100	(ug/l)	2-9-22
TOTAL ALUMINUM	21.9	2.5	(ug/l)	8-12-21

Attachment 9

Lab Results for Table 1.0(0) Pollutant Analysis for Wastewater Treatment Facilities



Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: South Houston , City of
Project: South Houston, City of (Permit Renewal)
Work Order: 24F3087

Reported:
18-Jul-24 11:02

Effluent

24F3087-01 (Water) Sampled: 27-Jun-24 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Envirodyne Laboratories, Inc.

Field Analysis

Chlorine Residual, Total	2.20	0.01	mg/L	1	B4G4551	27-Jun-24	27-Jun-24 11:00	SM 4500-Cl G	CLT	a
Dissolved Oxygen (DO)	9.30		mg/L	1	B4G4551	27-Jun-24	27-Jun-24 11:00	SM4500-O C	CLT	a
pH	6.40		SU	1	B4G4551	27-Jun-24	27-Jun-24 11:00	SM4500H+ B	CLT	a

Microbiology

E.coli	13	1	MPN/100 mL	1	B4F6046	27-Jun-24	27-Jun-24 15:08	SM9223 B	LN	
Enterococci	8	1	MPN/100 mL	1	B4G3303	27-Jun-24	27-Jun-24 15:27	Enterolert	LN	

Wet Chemistry

Alkalinity (Total) as CaCO ₃	67.5	20.0	mg/L	1	B4G3299	01-Jul-24	01-Jul-24 10:25	EPA 310.2	SSJ	
Ammonia-N (NH ₃ -N)	<0.20	0.20	mg/L	1	B4G3234	28-Jun-24	28-Jun-24 13:35	EPA 350.1	SSJ	
CBOD-5	6.6	2.0	mg/L	1	B4G3599	27-Jun-24	27-Jun-24 15:00	SM5210 B	AGT	B, I
Chloride	164	12.0	mg/L	4	B4G3917	09-Jul-24	09-Jul-24 13:00	SM4500 Cl-B	BRC	
Conductivity at 25 C	751	30	umho/cm	1	B4F6036	09-Jul-24	09-Jul-24 11:38	SM2510 B	BRC	
Nitrate-N	13.1	2.50	mg/L	5	B4F5965	28-Jun-24	28-Jun-24 07:55	EPA 353.1	SSJ	
Oil & Grease	<5.0	5.0	mg/L	1	B4G4376	15-Jul-24	15-Jul-24 07:50	EPA 1664 A	BRC	
Phosphorus, Total	4.86	0.20	mg/L	2	B4G3251	01-Jul-24	01-Jul-24 14:34	SM4500-P E	DRJ	
Sulfate	82.7	10.0	mg/L	5	B4G3448	02-Jul-24	02-Jul-24 14:05	EPA 375.4	SSJ	
TDS	472	50.0	mg/L	1	B4G3500	02-Jul-24	02-Jul-24 14:34	SM2540 C	SKP	
TKN-N	1.71	0.50	mg/L	1	B4G4529	09-Jul-24	10-Jul-24 00:00	SM 4500-NH3 D SUB	L	
TSS	<2.0	2.0	mg/L	1	B4F5996	01-Jul-24	01-Jul-24 10:15	SM2540 D	JH	

Envirodyne Laboratories, Inc.

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

A handwritten signature in blue ink that reads "Amanda Heiman".

Candice Calhoun

From: City of South Houston W/S Dept <sohowwtp@yahoo.com>
Sent: Sunday, July 28, 2024 5:28 AM
To: Candice Calhoun
Subject: Application to Renew Permit No. WQ0010287001 - City of South Houston
Attachments: Response to TCEQ letter regarding permit renewal - 7-28-24 AG.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Attached is a response to TCEQ Notice of Deficiency (NOD) letter dated July 25, 2024.

Fred G.

Fred Gonzales
Water / Wastewater Superintendent
City of South Houston
Office: (713) 944-2027
email: sohowwtp@yahoo.com



1018 Dallas
South Houston, Texas 77587

July 27, 2024

Candice Calhoun
Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC 148)
P.O. Box 13087
Austin, Texas 78711-3087

Re: Response to TCEQ letter dated 7/25/24, Permit Renewal City of South Houston, Texas Domestic POTW, Permit Expires 3-1-25, Application Due 9-12-24, Permit # WQ0010287001.

Your letter of 7/25/24 requested four (4) items for the City to address as follows:

1. The original application plus two copies and the original check for \$ 2,015 were mailed by certified mail on 7/24/24. If you do not receive those in the next few days, please let us know.
2. Attached is the core data form requested.
3. We are confirming the English NORI draft is correct.
4. The NORI Spanish translation is attached.

This letter and attachments are also being sent by email to you so you will have the electronic file for the core data form and the NORI Spanish translation.

Should you have any questions, please contact me at email sohowwtp@yahoo.com, phone (713) 944-2027 or at the above address.

Sincerely;

Fred Gonzales, Water/Wastewater Superintendent

cc: Bob Hunt, B & B Consulting Group

Attachment: Core Data Form for TCEQ domestic wastewater permit renewal QW0010287001
Spanish translation NORI South Houston wastewater permit renewal



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.)	
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)	
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**
CN 600548390	RN 102986312
3. Regulated Entity Reference Number (if issued)	

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	7/25/2024					
<input type="checkbox"/> New Customer <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)	<input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership						
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>							
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		<i>If new Customer, enter previous Customer below:</i>					
City of South Houston, Texas							
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID	10. DUNS Number (if applicable)				
N/A	17460023306	(9 digits) 746002330	00254683				
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited				
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:				
12. Number of Employees		13. Independently Owned and Operated?					
<input type="checkbox"/> 0-20 <input checked="" type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No				
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following							
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party		<input type="checkbox"/> Other: <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:	P.O.Box 238						
	City	South Houston	State	TX	ZIP	77587	ZIP + 4

16. Country Mailing Information (if outside USA)	17. E-Mail Address (if applicable)	
18. Telephone Number (713) 944-2027	19. Extension or Code	20. Fax Number (if applicable) (713) 947-8320

SECTION III: Regulated Entity Information

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

New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information

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

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

City of South Houston Wastewater Treatment Plant

23. Street Address of the Regulated Entity: (No PO Boxes)	206 Michigan Street							
	City	South Houston	State	TX	ZIP	77587	ZIP + 4	238
24. County	Harris							

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

25. Description to Physical Location:								
26. Nearest City					State	Nearest ZIP Code		
City of Pasadena					TX	77506		
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).								
27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
29	40	08	95	14	05			
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.)								
Treatment of domestic wastewater								
34. Mailing Address:	City of South Houston							
	P.O. Box 238							

	City	South Houston	State	TX	ZIP	77587	ZIP + 4	238
35. E-Mail Address:		sohowwtp@yahoo.com						
36. Telephone Number		37. Extension or Code			38. Fax Number (if applicable)			
(713) 944-2027					(713) 947-8320			

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.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
	WQ0010287001			

SECTION IV: Preparer Information

40. Name:	Fred Gonzales		41. Title:	Water/Wastewater Superintendent	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(713) 947-2027		(713) 947-8320	sohowwtp@yahoo.com		

SECTION V: Authorized Signature

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

Company:	City of South Houston		Job Title:	Mayor	
Name (In Print):	Joe Soto			Phone:	(713) 947- 7700
Signature:				Date:	7/25/2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQoo_10287001

SOLICITUD. La Ciudad del Sur de Houston a 06 Michigan Street ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQoo10287001 ((Nº de identificación de la EPA. TX0057304) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de _4,000,000 galones por día. La planta está ubicada 306 Michigan Street en el sur de Houston, en el Condado de Harris, Texas 77587, Texas. La ruta de descarga es del sitio de la planta a Pantano de bayas; de allí a Sims Bayou; de allí al Canal de Navegación de Houston/ Marea del Pantano de Búfalo. La TCEQ recibió esta solicitud el July 20, 2024. La solicitud para el permiso estará disponible para leerla y copiarla en 1018 Dallas Street, Sur de Houston, TX 77587 antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN 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 Ciudad del Sur de Houston a la dirección indicada arriba o llamando a Fred Gonzales al 713-944-2027.

Fecha de emission:

Candice Calhoun

From: Cashiers
Sent: Tuesday, July 30, 2024 8:28 AM
To: Candice Calhoun
Subject: RE: Verification of Check Payment Received
Attachments: M419842.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Attached is a copy of your receipt.

If you have any questions or need any additional information please feel free to contact me.

Thanks,

Veronica Torrez

Cashier's Office Work Lead
OAS/FA/Revenue Operations
Ph: 512-239-0328 Fax: 512-239-0364
Veronica.torrez@tceq.texas.gov



From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, July 29, 2024 4:46 PM
To: Cashiers <Cashiers@tceq.texas.gov>
Subject: Verification of Check Payment Received
Importance: High

Good afternoon,

Can you please verify if the check below was received? I was not able to locate it in BASIS.



Basis2 Receipt Report by Endorsement Number

JUL-30-24 08:27 AM

<u>Acct. #:</u>	PTGQ	<u>Account Name:</u> NOTICE FEES WQP WATER QUALITY PMT							
<u>Paid For</u>	<u>Endors. #</u>	<u>Ref #2</u>	<u>Paid In By</u>	<u>PayTyp</u>	<u>Chk #</u>	<u>Card#</u>	<u>Bank Slip</u>	<u>Tran.Date</u>	<u>Receipt Amnt.</u>
	M419842B	10287001	SOUTH HOUSTON, CITY OF	CK	142273		BS00110260	29-JUL-24	\$15.00

<u>Acct. #:</u>	WQP	<u>Account Name:</u> WATER QUALITY PERMIT APPLICATION							
<u>Paid For</u>	<u>Endors. #</u>	<u>Ref #2</u>	<u>Paid In By</u>	<u>PayTyp</u>	<u>Chk #</u>	<u>Card#</u>	<u>Bank Slip</u>	<u>Tran.Date</u>	<u>Receipt Amnt.</u>
CITY OF SOUTH HOUSTON WWTP	M419842A	10287001	SOUTH HOUSTON, CITY OF	CK	142273		BS00110260	29-JUL-24	\$2000.00