



Technical 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. Second notice (NAPD-Notice of Preliminary Decision)
 - English
 - Alternative Language (Spanish)
4. Application materials *
5. Draft permit *
6. Technical summary or fact sheet *

* **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.



Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
 - Inglés
 - Idioma alternativo (español)
4. Materiales de la solicitud **
5. Proyecto de permiso **
6. Resumen técnico u hoja de datos **

** **NOTA:** Esta solicitud se declaró administrativamente completa antes del 1 de junio de 2024. Los materiales de la solicitud, el proyecto de permiso, y los resumen técnico u hoja de datos están disponibles para revisión en la ubicación de consulta pública que se indica en el NAPD.

Section 15. Plain Language Summary (Instructions Page 40)

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

City of Houston (CN600128995) operates the Westway Wastewater Treatment Facility (RN102546199), an activated sludge wastewater treatment facility. The facility is located at 10273 Genard Road, in Houston, Harris County, Texas 77041.

This application is for a renewal to discharge an annual average flow of 995,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia-nitrogen (NH₃N), and Escherichia coli (*E. coli*). Additional potential pollutants are included in the permit application package in Domestic Technical Report 1.0, Section 7 – Pollutant Analysis of Treated Effluent and Domestic Technical Report 4.0. Domestic wastewater is treated by activated sludge with biological nitrification. Treatment units include bar screens for preliminary treatment, aeration basins for biological treatment, secondary clarifiers for solids settling, chlorine contact basins for disinfection, digesters for sludge stabilization, and a thickener for solids concentration. Solids from the facility are hauled offsite for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS

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

La ciudad de Houston (CN600128995) opera la instalación de tratamiento de aguas residuales Westway Wastewater Treatment Facility (RN102546199), un lodos activados - aireación prolongada instalación de tratamiento de aguas residuales. La instalación está situada en 10273 Genard Road, Houston, en el condado de Harris, Texas 77041.

Esta solicitud es para la renovación para descargar un flujo medio anual de 995,000 galones por día de aguas residuales domesticas tratadas por el emisario 001.

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010495139

APPLICATION. City of Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495139 (EPA I.D. No. TX0026875) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 995,000 gallons per day. The domestic wastewater facility is located at 10273 Genard Road, Houston, in Harris County, Texas 77041. The discharge route is from the plant site to Brickhouse Gully; thence to Whiteoak Bayou Above Tidal. TCEQ received this application on March 22, 2024. The permit application will be available for viewing and copying at City of Houston, Houston Public Works, Wastewater Operations Building, Library, 10500 Bellaire Boulevard, Houston, in Harris County, Texas prior to the date this notice is published in the newspaper. 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=-95.546944,29.843333&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices>. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices>.

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Houston at the address stated above or by calling Mr. Walid Samarneh, P.E., Managing Engineer, at 832-395-5771.

Issuance Date: April 14, 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. WQ0010495139

SOLICITUD. La Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010495139 (EPA I.D. No. TX0026875) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio anual de 995,000 galones por día. La planta de tratamiento de aguas residuales domésticas está ubicada en 10273 Genard Road, Houston, en el Condado de Harris, Texas 77041. La ruta de descarga es del sitio de la planta al barranco Brickhouse Gully; de allí al pantano Whiteoak Bayou por encima de la marea. La TCEQ recibió esta solicitud en Marzo 22, 2024. La solicitud para el permiso está disponible para leerla y copiarla en la Ciudad de Houston, Trabajos Públicos de Houston, Operaciones de Wastewater edificio, biblioteca, 10500 Bellaire Boulevard, Houston, Condado de Harris, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.546944,29.843333&level=18>

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cuál lista(s) y envía por correo su pedido a la Oficina del Secretario Principal del 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 La Ciudad de Houston a la dirección indicada arriba o llamando a Mr. Walid Samarneh, P.E., Managing Engineer, at 832-395-5771.

Fecha de emission: 14 de abril de 2024

Texas Commission on Environmental Quality



NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR MUNICIPAL WASTEWATER

RENEWAL

PERMIT NO. WQ0010495139

APPLICATION AND PRELIMINARY DECISION. City of Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495139, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 995,000 gallons per day. TCEQ received this application on March 22, 2024.

The facility is located at 10273 Genard Road, in the City of Houston, Harris County, Texas 77041. The treated effluent is discharged to Brickhouse Gully (Harris County Flood Control District (HCFCD) ditch E115-00-00), thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for Brickhouse Gully (HCFCD ditch E115-00-00) upstream of Gessner Road, and limited aquatic life use for Brickhouse Gully (HCFCD ditch E115-00-00) downstream of Gessner Road. The designated uses for Segment No. 1017 are primary contact recreation and limited aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.546944,29.843333&level=18>

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at City of Houston, Houston Public Works, Wastewater Operations Building, Library, 10500 Bellaire Boulevard, Houston, in Harris County, Texas.

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices>. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices>.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds 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 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 a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a 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.

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.

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

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.

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at www.tceq.texas.gov/goto/comment within 30 days from the date of newspaper publication of this notice.

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. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, 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. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Houston at the address stated above or by calling Mr. Walid Samarneh, P.E., Managing Engineer at 832-395-5771.

Issuance Date: September 30, 2024

Comisión De Calidad Ambiental Del Estado De Texas



AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA ÉL PERMISO TPDES PARA AGUAS RESIDUALES MUNICIPALES

RENOVACIÓN

PERMISO NO. WQ0010495139

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para una renovación del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Permiso No. WQ0010495139, cuál autoriza la descarga de malgaste agua tratados domésticos en un flujo promedio anual a no exceder 995,000 galones por día. La TCEQ recibió esta solicitud en Marzo 22, 2024.

La facilidad está ubicada en 10273 Genard Road, Ciudad de Houston, Condado de Harris, Texas 77041. El efluente tratado es descargado al barranco Brickhouse Gully (Distrito de Medidas para Controlar las Inundaciones del Condado Harris (HCFCD) zanja E115-00-00); de allí al pantano Whiteoak Bayou por encima de la marea en Segmento No. 1017 del río San Jacinto River Basin. Los usos no clasificados para las aguas del barranco Brickhouse Gully (HCFCD) zanja E115-00-00) es el uso mínimo de las vidas acuáticas aguas arriba de la calle Gessner Road, y uso limitado de las vidas acuáticas para el barranco Brickhouse Gully (HCFCD) zanja E115-00-00) aguas abajo de la calle Gessner Road. Los usos designados para Segmento No. 1017, el uso principal es recreación del contacto y uso limitado de las vidas acuáticas. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.546944,29.843333&level=18>

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que, si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en La Ciudad de Houston, Departamento de Trabajos Públicos de Houston, Operaciones de Wastewater edificio, biblioteca, 10500 Bellaire Boulevard, Houston, Condado de Harris, Texas.

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 todos 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 TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso si se cumplen ciertos criterios.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TECQ para consideración en una reunión programada de la Comisión.

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

Todos los comentarios escritos del público y los pedidos para una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o por el internet a www.tceq.texas.gov/goto/comment durante los 30 días después de la publicación del aviso.

INFORMACION DISPONIBLE ONLINE. Para más detalles sobre el estado de la aplicación, visite la base de datos integrada del Comisario al www.tceq.texas.gov/goto/cid. Buscar en la base de datos usando el número de permiso para esta aplicación, que se puede encontrar al inicio de este aviso.

AGENCIA CONTACTOS Y INFORMACIÓN. Todos los comentarios escritos del público y los pedidos para una reunión deben ser por el internet www.tceq.texas.gov/goto/comment o por escrito a la Oficina del Secretario Principal, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que usted envíe formará parte del registro del TCEQ, incluidas las direcciones de correo electrónico. Si necesita más información en español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov/goto/pep. Para información en español, puede llamar al 1-800-687-4040.

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

Fecha de emission: 30 de septiembre de 2024



TPDES PERMIT NO.
WQ0010495139
*[For TCEQ office use only - EPA I.D.
No. TX0026875]*

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

This is a renewal that replaces TPDES
Permit No. WQ0010495139 issued on
September 26, 2019.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City of Houston

whose mailing address is

10500 Bellaire Boulevard
Houston, Texas 77072

is authorized to treat and discharge wastes from the Westway Wastewater Treatment Facility,
SIC Code 4952

located at 10273 Genard Road, in the City of Houston, Harris County, Texas 77041

to Brickhouse Gully (Harris County Flood Control District ditch E115-00-00), thence to
Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth
in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ),
the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does
not grant to the permittee the right to use private or public property for conveyance of
wastewater along the discharge route described in this permit. This includes, but is not limited
to, property belonging to any individual, partnership, corporation, or other entity. Neither does
this permit authorize any invasion of personal rights nor any violation of federal, state, or local
laws or regulations. It is the responsibility of the permittee to acquire property rights as may be
necessary to use the discharge route.

This permit shall expire at midnight, **five years from the date of issuance.**

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 0.995 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,597 gallons per minute (gpm).

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (83)	15	25	35	One/week	Composite
Total Suspended Solids	15 (124)	25	40	60	One/week	Composite
Ammonia Nitrogen	3 (25)	5	7	15	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	63	N/A	200	N/A	One/week	Grab
Lethal Whole Effluent Toxicity (WET) limit 94% (Parameter 51710) <i>Ceriodaphnia dubia</i> (3-brood chronic IC25 ¹)	94%	N/A	94%	N/A	One/quarter	Composite
Sublethal WET limit 80% (Parameter 51710) <i>Ceriodaphnia dubia</i> (3-brood chronic IC25 ¹)	80%	N/A	80%	N/A	One/quarter	Composite
Lethal WET limit 94% (Parameter 51714) <i>Pimephales promelas</i> (7-day chronic IC25 ¹)	94%	N/A	94%	N/A	One/quarter	Composite
Sublethal WET limit 80% (Parameter 51714) <i>Pimephales promelas</i> (7-day chronic IC25 ¹)	80%	N/A	80%	N/A	One/quarter	Composite

¹ The sublethal IC25 is defined the inhibition concentration of effluent that would cause a 25% reduction in the specified endpoint.

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): CBOD₅, TSS, NH₃-N, *E. coli* and Cl₂ residual shall be taken after obtaining a 20-minute detention time in the chlorination basin and prior to dechlorination. Dissolved Oxygen, Cl₂ residual, and pH shall be taken after the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored once per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
 - g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.
3. Sample Type
- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

- b. Grab sample - an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Compliance Monitoring Team of the Enforcement Division (MC 224), 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 month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement.
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Compliance

Monitoring Team of the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
 - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
 - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
 - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
 - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Compliance Monitoring Team of the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.
8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
 - i. One hundred micrograms per liter (100 µg/L);
 - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
 - i. Five hundred micrograms per liter (500 µg/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

- a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. For the purpose of this paragraph, adequate notice shall include information on:
 - i. The quality and quantity of effluent introduced into the POTW; and
 - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS**1. General**

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30

TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §§ 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words confidential business information on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

- a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;
 - iv. Identity of hauler or transporter;
 - v. Location of disposal site; and
 - vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration</u> <u>(Milligrams per kilogram)*</u>
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

- a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

- b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids

criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a

single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
 - ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.
4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- i. Biosolids shall be injected below the surface of the land.
- ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- once during the term of this permit
PCBs	- once during the term of this permit

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

<u>Amount of biosolids (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

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

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a landfill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

<u>Pollutant</u>	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

<u>Pollutant</u>	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a

period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

“I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.”

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee’s specific sludge treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.
17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

- E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

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

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Toxicity Characteristic Leaching Procedure (TCLP) results.
3. Annual sludge or biosolids production in dry tons/year.
4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge or biosolids transported interstate in dry tons/year.
6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
7. Identity of hauler(s) and transporter registration number.
8. Owner of disposal site(s).
9. Location of disposal site(s).
10. Date(s) of disposal.

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

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category C facility must be operated by a chief operator or an operator holding a Class C license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The facility is not located in the Coastal Management Program boundary.
3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.
4. The permittee is hereby placed on notice that this permit may be reviewed by the TCEQ after the completion of any new intensive water quality survey on Segment No. 1017 of the San Jacinto River Basin and any subsequent updating of the water quality model for Segment No. 1017 to determine if the limitations and conditions contained herein are consistent with any such revised model. The permit may be amended, pursuant to 30 TAC § 305.62, as a result of such review. The permittee is also hereby placed on notice that effluent limits may be made more stringent at renewal based on, for example, any change to modeling protocol approved in the TCEQ Continuing Planning Process.
5. The permittee shall comply with the requirements of 30 TAC § 309.13 (a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
6. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
7. The sludge generated from the treatment facility may be hauled by a registered transporter to another of the TCEQ permitted wastewater treatment plants owned by the City of Houston, to be treated and then disposed of with the bulk of the sludge from the plant accepting the sludge.

The permittee shall keep records of all sludge removed from the wastewater treatment plant and these records shall include the following information:

- a. The volume of sludge transported to another treatment plant;
- b. The date(s) that sludge was transported,
- c. The identity of haulers, if applicable; and
- d. The TCEQ permit number, and location of the wastewater treatment plant to which the sludge is transported

These records shall be maintained on a monthly basis and shall be reported to the TCEQ Regional Office (MC Region 12) and the TCEQ Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

8. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/week may be reduced to two/month. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.
9. The permittee shall monitor the effluent total dissolved solids, chloride, and sulfate concentration, in mg/l, by quarterly composite sample, for the term of this permit. The composite sample shall be taken after obtaining a 20-minute detention time in the chlorination basin and prior to dechlorination. The results shall be reported to the TCEQ with the subsequent permit renewal or amendment application.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of Houston** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **November 27, 1984**, and modified on **February 26, 1993**, and **March 11, 2020 (nonsubstantial Streamlining Rule)**, and modified on **June 14, 2021 (TBLLs)**.

The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

- a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.
- b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.
- c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.
- d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

- (1) Statement of duration (in no case more than five years);
- (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
- (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;
- (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in 40 CFR Part 403, categorical pretreatment standards, local limits, and State and local law;

- (5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
 - (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
 - e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).
 - f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).
 - g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.
 - h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.
2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.
3. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **November** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

In addition, each **November** the permittee shall submit an updated pretreatment program annual status report, in accordance with 40 CFR §§403.12(i) [rev. 10/22/15] and (m), to the TCEQ Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in

this section:

- a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:
 - (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.
 - (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [rev. 10/14/05], then the list must also identify:
 - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [rev. 10/22/15] and (3);
 - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
 - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).
 - (3) Control mechanism status.
 - Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;
 - Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
 - Include the type of general control mechanisms; and
 - Report all NSCIU annual evaluations performed, as applicable.
 - (4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:
 - Total number of inspections performed; and
 - Total number of sampling events conducted.
 - (5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:
 - Compliant (C) - no violations during the pretreatment year reporting period;
 - Non-compliant (NC) - one or more violations during the pretreatment year

reporting period but does not meet the criteria for SNC; and

- Significant Noncompliance (SNC) - in accordance with requirements described above in this section.

- (6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.
- b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.
 - c. A report on any interference, pass through, upset, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee
 - d. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of significantly noncompliant IUs, giving the name of the newspaper and the date the list was published.
 - e. The information required by this section including the information on the attached tables must be submitted. The permittee may submit the information in tabular form using the example table format provided. Please attach on a separate sheet those explanations to document various pretreatment activities, including IU permits that have expired, BMP violations, and required sampling events not conducted by the permittee as required.
 - f. A summary of changes to the POTW's pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. *[rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158]*.

- 4. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List**Reporting month/year:** _____, _____ **to** _____, _____**TPDES Permit No.:** _____ **Permittee:** _____ **Treatment Plant:** _____

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS¹ LIST																
Industrial User Name	SIC or NAICS Code	CIU ²	CONTROL MECHANISM				New User ³ (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period ⁴ (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
			Y/N or NR ⁵	IND or GEN or NR	Last Action ⁶	TBLLs or TBLLs only ⁷				REPORTS				NSCIU Certifications	Effluent Limits	Narrative Standards
										BMR	90-Day	Semi-Annual	Self-Monitoring ⁸			

- 1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.
- 2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).
- 3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.
- 4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).
- 5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g.* the sector type and BMP description.
- 6 Permit or NSCIU evaluations as applicable.
- 7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.
- 8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

**TPDES Pretreatment Program Annual Report Form for
Industrial User Inventory Modifications**

Reporting month/year: _____, _____ **to** _____, _____

TPDES Permit No: _____ **Permittee:** _____ **Treatment Plant:** _____

INDUSTRIAL USER INVENTORY MODIFICATIONS					
FACILITY NAME, ADDRESS AND CONTACT PERSON	ADD, CHANGE, DELETE (Including categorical reclassification to NSCIU or MTCIU)	IF DELETION: Reason For Deletion	IF ADDITION OR SIGNIFICANT CHANGE:		
			PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE ⁹ (In gpd) R = Regulated U = Unregulated T = Total

⁹ For NSCIUs, total flow must be given, if regulated flow is not determined.

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken**Reporting month/year:** _____, _____ **to** _____, _____**TPDES Permit No:** _____ **Permittee:** _____ **Treatment Plant:** _____**Overall SNC** _____% **SNC ¹⁰ based on:** **Effluent Violations** _____%
Reporting Violations _____% **Narrative Standard Violations** _____%

Noncompliant Industrial Users - Enforcement Actions Taken															
Industrial User Name	Nature of Violation ¹¹				Number of Actions Taken					Penalties Collected (Do not Include Surcharge)	Compliance Schedule			Current Status Returned to Compliance: (Y or N)	Comments
	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	NOV	A.O.	Civil	Criminal	Other		Y or N	Date Issued	Date Due		

10 # %

_____ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)

_____ Reporting Requirements [WENDB-PSNC]

_____ Narrative Standards

11 Please specify a separate number for each type of violation, *e.g.* report, notification, and/or NSCIU certification.

BIOMONITORING REQUIREMENTS**CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER**

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. **Scope, Frequency, and Methodology**

- a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.
- b. The permittee shall conduct the following toxicity tests using the test organisms, procedures and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:
 - 1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.
 - 2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 25%, 42%, 56%, 80%, and 100% effluent. The critical dilution, defined as 94% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. The lethal IC₂₅ effluent limitations of not less than 94% and the sublethal IC₂₅ of 80% is effective for both test species (see the EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS section). The IC₂₅ is the inhibition concentration of effluent that would cause a 25% reduction in survival or reproduction/growth when compared to the control.
- e. If a test species fails to pass the lethal endpoint at the 94% effluent concentration or the sublethal endpoint at the 80% effluent concentration, the testing frequency will increase to monthly for that test species until such time compliance with the

IC25 effluent limitation is demonstrated for a period of three consecutive months, at which time the quarterly testing frequency may be resumed.

f. Testing Frequency Reduction

- 1) If none of the first four consecutive quarterly fathead minnow tests demonstrates significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per year.
- 2) If one or more of the first four consecutive quarterly fathead minnow tests demonstrates significant toxicity, the permittee shall continue quarterly testing until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency until this permit is reissued.

2. Required Toxicity Testing Conditions

- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
 - 1) a control mean survival of 80% or greater;
 - 2) a control mean number of water flea neonates per surviving adult of 15 or greater;
 - 3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
 - 4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
 - 5) a critical dilution CV% of 40 or less for young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test, unless statistically significant toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid;
 - 6) a percent minimum significant difference of 47 or less for water flea reproduction, unless statistically significant sublethal toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid; and
 - 7) a PMSD of 30 or less for fathead minnow growth, unless statistically significant sublethal toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid.
- b. Statistical Interpretation
 - 1) For the water flea survival and survival test, the statistical analyses used

to determine the inhibition concentration of effluent that would cause a 25% reduction (IC₂₅) in survival or mean young per female shall be as described in the methods manual referenced in Part 1.b.

- 2) For the fathead minnow larval survival and growth tests, the statistical analyses used to determine the IC₂₅ in survival or growth shall be as described in the methods manual referenced in Part 1.b.
- 3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 4) Most point estimates are derived from a mathematical model that assumes a continuous dose-response relationship. For any test result that demonstrates a non-continuous (threshold) response, or a non-monotonic dose-response relationship, the IC₂₅ should be determined based on the method guidance manual referenced in Item 3.
- 5) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic dose-response relationship may be submitted, prior to the due date, for technical review of test validity and acceptability. The method guidance manual referenced in Item 3 will be used as the basis, along with best professional judgement, for making a determination of test validity and acceptability.

c. Dilution Water

- 1) Dilution water used in the toxicity tests shall be the receiving water collected at a point upstream of the discharge as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
 - b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

- a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
 - b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days);
 - c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.
- 3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.
- d. Samples and Composites
 - 1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.
 - 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.
 - 5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
 - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
 - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
 - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter T4P3B, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For the water flea, Parameter T6P3B, report the IC25 for survival.
 - 3) For the water flea, Parameter T5P3B, enter a "1" if the IC25 for reproduction is less than the critical dilution; otherwise, enter a "0."
 - 4) For the water flea, Parameter T7P3B, report the IC25 for reproduction.
 - 5) For the fathead minnow, Parameter T4P6C, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 6) For the fathead minnow, Parameter T6P6C, report the IC25 for survival.
 - 7) For the fathead minnow, Parameter T5P6C, enter a "1" if the IC25 for growth is less than the critical dilution; otherwise, enter a "0."
 - 8) For the fathead minnow, Parameter T7P6C, report the IC25 for growth.
- d. The permittee shall report the lethal and sublethal WET values for the 30-day average and the 7-day minimum under Parameter No. 51710 for the water flea and Parameter No. 51714 for the fathead minnow for the appropriate reporting period. If more than one valid test was performed during the reporting period for any one test species, those IC25s will be averaged arithmetically and reported as the daily average IC25. The data submitted should reflect the lowest lethal and sublethal test results during the reporting period.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Date Time Date Time
 Composites No. 1 FROM: _____ TO: _____
 Collected No. 2 FROM: _____ TO: _____
 No. 3 FROM: _____ TO: _____

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	25%	42%	56%	80%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	25%	42%	56%	80%	100%
24h						
48h						
End of Test						

1. Is the IC 25 for reproduction less than the critical dilution (94%)? _____ YES
 _____ NO

2. Is the IC 25 for survival less than the critical dilution (94%)? _____ YES _____ NO

3. Enter percent effluent corresponding to each IC25 below:

IC25 survival = _____%

IC25 reproduction = _____%

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Date Time Date Time
 Composites No. 1 FROM: _____ TO: _____
 Collected No. 2 FROM: _____ TO: _____
 No. 3 FROM: _____ TO: _____

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
25%							
42%							
56%							
80%							
100%							

* Coefficient of Variation = standard deviation x 100/mean

TABLE 1 (SHEET 4 OF 4)
BIOMONITORING REPORTING
FATHEAD MINNOW GROWTH AND SURVIVAL TEST
FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
25%									
42%									
56%									
80%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

1. Is the IC 25 for growth less than the critical dilution (94%)? _____ YES _____ NO
2. Is the IC 25 for survival less than the critical dilution (94%)? _____ YES _____ NO
3. Enter percent effluent corresponding to each IC25 below:
 IC25 survival = _____ %
 IC25 reproduction = _____ %

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with “Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms,” fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
 - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in item 2.b., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a Best Management Practice (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.
- e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water - In accordance with item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution water.
- c. Samples and Composites
 - 1) The permittee shall collect one composite sample from Outfall 001.
 - 2) The permittee shall collect the composite samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted

during the previous calendar quarter.

- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”
 - 2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”
- d. Enter the following codes for retests only:
 - 1) For retest number 1, Parameter 22415, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”
 - 2) For retest number 2, Parameter 22416, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE

is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

- 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail

information regarding the TRE activities including:

- 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates persistent significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that

demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.

- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

TABLE 2 (SHEET 2 OF 2)
FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495139, EPA I.D. No. TX0026875, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: City of Houston
10500 Bellaire Boulevard
Houston, Texas 77072

Prepared By: Shaun M. Speck
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-4549

Date: September 24, 2024

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 0.995 million gallons per day (MGD). The existing wastewater treatment facility serves the Westbranch residential area in northwest Houston.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 10273 Genard Road, in the City of Houston, Harris County, Texas 77041.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.843280 N	95.546903 W

The treated effluent is discharged to Brickhouse Gully (Harris County Flood Control District (HCFCD) ditch E115-00-00), thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for Brickhouse Gully (HCFCD ditch E115-00-00) upstream of

Gessner Road, and limited aquatic life use for Brickhouse Gully (HCFCD ditch E115-00-00) downstream of Gessner Road. The designated uses for Segment No. 1017 are primary contact recreation and limited aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Westway Wastewater Treatment Facility is an activated sludge process plant operated in the complete mix mode. Treatment units include bar screens, two aeration basins, two final clarifiers, a sludge digester, and four chlorine contact chambers. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter to Northwest Wastewater Treatment Facility, Permit No. WQ0010495076, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility does not appear to receive significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period February 2022 through February 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), and ammonia nitrogen (NH₃-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	0.57
CBOD ₅ , mg/l	4.8
TSS, mg/l	6.0
NH ₃ -N, mg/l	1.5
<i>E. coli</i> , CFU or MPN per 100 ml	2

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 0.995 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,597 gallons per minute (gpm).

City of Houston TPDES Permit No. WQ0010495139
Fact Sheet and Executive Director's Preliminary Decision

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>
CBOD ₅	10	83	15	25
TSS	15	124	25	40
NH ₃ -N	3	25	5	7
DO (minimum)	4.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	63	N/A	N/A	200
Lethal Whole Effluent Toxicity (WET) limit 94% (Parameter 51710)				
<i>Ceriodaphnia dubia</i> (3-brood chronic IC25 ¹)	94%	N/A	94%	N/A
Sublethal WET limit 80% (Parameter 51710)				
<i>Ceriodaphnia dubia</i> (3-brood chronic IC25 ¹)	80%	N/A	80%	N/A
Lethal WET limit 94% (Parameter 51714)				
<i>Pimephales promelas</i> (7-day chronic IC25 ¹)	94%	N/A	94%	N/A
Sublethal Whole Effluent Toxicity (WET) limit 80% (Parameter 51714)				
<i>Pimephales promelas</i> (7-day chronic IC25 ¹)	80%	N/A	80%	N/A

¹ The sublethal IC25 is defined the inhibition concentration of effluent that would cause a 25% reduction in the specified endpoint.

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	One/week
TSS	One/week
NH ₃ -N	One/week
DO	One/week
<i>E. coli</i>	One/week
Lethal WET Limits	One/quarter
Sublethal WET Limits	One/quarter

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter to Northwest Wastewater Treatment Facility, Permit No. WQ0010495076, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on **November 27, 1984**, and modified on **March 11, 2020**. This permit has appropriate pretreatment language for a facility of this size and complexity. The permittee is required, under the conditions of the approved pretreatment program, to prepare annually a list of Industrial Users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program which receive industrial wastewaters. This list is to be published annually in the largest daily newspaper in the municipality during the month of **November**.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 25%, 42%, 56%, 80%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 94% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - (a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
 - (b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the

testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:
 - (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).
 - (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. BUFFER ZONE REQUIREMENTS

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

F. SUMMARY OF CHANGES FROM APPLICATION

None.

G. SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements of the draft permit remain the same as the existing permit requirements.

Other Requirement No.9 in the existing permit has been updated in the draft permit to include sulfate monitoring based on screening from the standards implementation team.

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated. Pretreatment requirements have also been updated in the draft permit.

The bacteria limits in the draft permit are consistent with the requirements of the Total Maximum Daily Load (TMDL), Project No. 22, and any subsequent associated WQMP updates.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Brickhouse Gully (Harris County Flood Control District [HCFCD] ditch E115-00-00), thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin. The unclassified receiving water uses are minimal aquatic life use for Brickhouse Gully (HCFCD ditch E115-00-00) upstream of Gessner Road, and limited aquatic life use for Brickhouse Gully (HCFCD ditch E115-00-00) downstream of Gessner Road. The designated uses for Segment No. 1017 are primary contact recreation and limited aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1017 is not currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

The Total Maximum Daily Load (TMDL) project No. 1: *Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System* has been withdrawn and is no longer applicable.

TMDL Project No. 22: *Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries Segments 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E* has been

approved for this segment. On April 8, 2009, the TCEQ adopted *Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries*. The U.S. EPA approved the TMDL on June 11, 2009. The TMDL addresses elevated levels of bacteria in multiple segments and assessment units of these bayous and their tributaries. The waste load allocation (WLA) for wastewater treatment facilities was established as the permitted flow for each facility multiplied by one-half the geometric mean criterion for bacteria. Future growth from existing or new permitted sources is not limited by these TMDLs as long as the sources do not exceed the limits of one-half the bacteria geometric mean criterion for *E. coli*. To ensure that effluent limitations for this discharge are consistent with the WLAs provided in the TMDL, a concentration based effluent limitation for *E. coli* of 63 CFU or MPN per 100 ml has been continued in the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 657 mg/l total dissolved solids (TDS), 75 mg/l sulfate, and 126 mg/l chloride present in the effluent. The segment criteria for Segment No. 1017 are 463 mg/l for TDS, 33 mg/l for sulfate, and 86 mg/l for chlorides. Based on dissolved solids screening, sulfate monitoring requirements are needed in addition to the already permitted TDS and chloride monitoring requirements. See Attachment A of this Fact Sheet.

Monitoring and reporting of total Kjeldahl nitrogen (TKN) was an original requirement of WLE-1 (*Waste Load Evaluation for the Houston Ship Channel System in the San Jacinto River Basin*, 1984). WLE-1 has since been superseded by WLE-1R, and with deterministic modeling now used to set effluent limits for all dischargers, reporting of TKN was suspended.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The recommended effluent limitations are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to

30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Chronic freshwater criteria are applied in the perennial freshwater stream.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. This effluent percentage also provides acute protection of aquatic life in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during critical conditions. The estimated dilution for chronic protection of aquatic life is calculated using the permitted flow of 0.995 MGD and the 7-day, 2-year (7Q2) flow of 0.1 cfs for the perennial portion of Brickhouse Gully (HCFCD ditch E115-00-00), the perennial stream. The following critical effluent percentages are being used:

Acute Effluent %:	100%	Chronic Effluent %:	94%
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Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-

pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards, June 2010." The segment values are 65 mg/l for hardness (as calcium carbonate), 85 mg/l chlorides, 7.7 standard units for pH, and 9 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

No analytical data is available for screening against water quality-based effluent limitations because the facility is not in operation. Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied for human health protection in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 0.995 MGD and the harmonic mean flow of 0.2 cfs for the perennial portion of Brickhouse Gully (HCFCD ditch E115-00-00). The following critical effluent percentage is being used:

Human Health Effluent %: 88.5%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1017, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

The lethal and sublethal WET limits for both test species of 94% and 80%, respectively, are retained. Therefore, no RP was performed.

With zero failures by the fathead minnow, this test species is eligible for the testing frequency reduction. With two WET limit

violations by the water flea in the past three years, this test species is not eligible for the testing frequency reduction.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the

Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Shaun M. Speck at (512) 239-4549.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010495139 issued on September 26, 2019.

B. APPLICATION

Application received on March 22, 2024, and additional information received on July 31, 2024.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of

the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

TMDL Project No. 22: *Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries Segments 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E.*

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Perennial Stream

Applicant Name:
Permit Number, Outfall:
Segment Number:

City of Houston
WQ0010495139
1017

Enter values needed for screening:			Data Source (edit if different)
QE - Average effluent flow (2 yr avg)	0.56	MGD	2 year max
QS - Perennial stream harmonic mean flow	0.10	cfs	2024 Critical conditions memo
QE - Average effluent flow	0.8664	cfs	Calculated
CA - TDS - ambient segment concentration	463	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	86	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	33	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	600	mg/L	2014 TSWQS, Appendix A
CC - chloride - segment criterion	110	mg/L	2014 TSWQS, Appendix A
CC - sulfate - segment criterion	65	mg/L	2014 TSWQS, Appendix A
CE - TDS - average effluent concentration	657	mg/L	Permit application
CE - chloride - average effluent concentration	126	mg/L	Permit application
CE - sulfate - average effluent concentration	74.7	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Preliminary Calculations	Load in River QSCA	Effluent Load QECE	New Concentration Equation 2	% Change in Ambient	% Change in Assim. Capacity
Parameter					
TDS	46.3	569.2569	636.93	37.6	127.0
Chloride	8.6	109.1725	121.86	41.7	149.4
Sulfate	3.3	64.72373	70.39	113.3	116.8

No further screening for TDS needed if: 636.93 ≤ 600

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No further screening for chloride needed if:	121.86	≤	110
No further screening for sulfate needed if:	70.39	≤	65

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	615.81		
Calculate the LTA	LTA = WLA * 0.93	572.70		
Calculate the daily average	Daily Avg. = LTA * 1.47	841.88		
Calculate the daily maximum	Daily Max. = LTA * 3.11	1781.11		
	70% of Daily Avg.			
Calculate 70% of the daily average	=	589.31		
	85% of Daily Avg.			
Calculate 85% of the daily average	=	715.59		
No permit limitations needed if:	657	≤	589.31	
Reporting needed if:	657	>	589.31	but ≤ 715.59
Permit limits may be needed if:	657	>	715.59	

Reporting needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	112.77		
Calculate the LTA	LTA = WLA * 0.93	104.88		
Calculate the daily average	Daily Avg. = LTA * 1.47	154.17		
Calculate the daily maximum	Daily Max. = LTA * 3.11	326.16		
	70% of Daily Avg.			
Calculate 70% of the daily average	=	107.92		
	85% of Daily Avg.			
Calculate 85% of the daily average	=	131.04		
No permit limitations needed if:	126	≤	107.92	
Reporting needed if:	126	>	107.92	but ≤ 131.04
Permit limits may be needed if:	126	>	131.04	

Reporting needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	68.69		
Calculate the LTA	LTA = WLA * 0.93	63.88		
Calculate the daily average	Daily Avg. = LTA * 1.47	93.91		
Calculate the daily maximum	Daily Max. = LTA * 3.11	198.68		

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Calculate 70% of the daily average	70% of Daily Avg. =	65.74
Calculate 85% of the daily average	85% of Daily Avg. =	79.82

No permit limitations needed if:	74.7	≤	65.74	
Reporting needed if:	74.7	>	65.74	but ≤ 79.82
Permit limits may be needed if:	74.7	>	79.82	

Reporting needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXT0X MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STR

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Houston
TPDES Permit No.:	WQ0010495139
Outfall No.:	001
Prepared by:	Shaun Speck
Date:	07/15/2024

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Brickhouse Gully
Perennial Stream/River within 3 Miles:	Brickhouse Gully
Segment No.:	1017
TSS (mg/L):	9
pH (Standard Units):	7.7
Hardness (mg/L as CaCO ₃):	65
Chloride (mg/L):	85
Effluent Flow for Aquatic Life (MGD):	0.995
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	0.1
% Effluent for Chronic Aquatic Life (Mixing Zone):	0.94
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	0.995
Harmonic Mean Flow (cfs) for perennial:	0.2
% Effluent for Human Health:	88.502
Human Health Criterion (select: PWS, FISH, or INC)	INC

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

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<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient t (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	96250.49	0.536		1.00	Assumed
			332434.4				
Cadmium	6.60	-1.13	0	0.251		1.00	Assumed
			429096.0				
Chromium (total)	6.52	-0.93	0	0.206		1.00	Assumed
			429096.0				
Chromium (trivalent)	6.52	-0.93	0	0.206		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
			205996.8				
Copper	6.02	-0.74	3	0.350		1.00	Assumed
			485966.1				
Lead	6.45	-0.80	2	0.186		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
			139985.0				
Nickel	5.69	-0.57	9	0.443		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
			249534.2				
Silver	6.38	-1.03	8	0.308		1.00	Assumed
			270414.6				
Zinc	6.10	-0.70	7	0.291		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	635	298	364	230	337	713
Cadmium	5.6	0.182	22.5	0.775	12.9	0.597	0.877	1.85
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00426	1.38	0.00328	0.00482	0.0102
Chlorpyrifos	0.083	0.041	0.0830	0.0437	0.0476	0.0336	0.0494	0.104
Chromium (trivalent)	400	52	1947	270	1115	208	305	645
Chromium (hexavalent)	15.7	10.6	15.7	11.3	9.00	8.69	12.7	27.0
Copper	9.5	6.6	27.0	19.9	15.5	15.3	22.5	47.6
Cyanide (free)	45.8	10.7	45.8	11.4	26.2	8.77	12.8	27.2
4,4'-DDT	1.1	0.001	1.10	0.00106	0.630	0.000820	0.00120	0.00255
Demeton	N/A	0.1	N/A	0.106	N/A	0.0820	0.120	0.255
Diazinon	0.17	0.17	0.170	0.181	0.0974	0.139	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	21.1	34.0	16.2	23.8	50.4
Dieldrin	0.24	0.002	0.240	0.00213	0.138	0.00164	0.00241	0.00510
Diuron	210	70	210	74.5	120	57.4	84.3	178
Endosulfan I (<i>alpha</i>)	0.22	0.056	0.220	0.0596	0.126	0.0459	0.0675	0.142
Endosulfan II (<i>beta</i>)	0.22	0.056	0.220	0.0596	0.126	0.0459	0.0675	0.142
Endosulfan sulfate	0.22	0.056	0.220	0.0596	0.126	0.0459	0.0675	0.142
Endrin	0.086	0.002	0.0860	0.00213	0.0493	0.00164	0.00241	0.00510
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0106	N/A	0.00820	0.0120	0.0255
Heptachlor	0.52	0.004	0.520	0.00426	0.298	0.00328	0.00482	0.0102
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	0.08	1.13	0.0852	0.645	0.0656	0.0964	0.204
Lead	40	1.57	216	8.98	124	6.92	10.1	21.5
Malathion	N/A	0.01	N/A	0.0106	N/A	0.00820	0.0120	0.0255

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Mercury	2.4	1.3	2.40	1.38	1.38	1.07	1.56	3.31
Methoxychlor	N/A	0.03	N/A	0.0319	N/A	0.0246	0.0361	0.0765
Mirex	N/A	0.001	N/A	0.00106	N/A	0.000820	0.00120	0.00255
Nickel	325	36.1	735	86.9	421	66.9	98.4	208
Nonylphenol	28	6.6	28.0	7.03	16.0	5.41	7.95	16.8
Parathion (ethyl)	0.065	0.013	0.0650	0.0138	0.0372	0.0107	0.0156	0.0331
Pentachlorophenol	17.6	13.5	17.6	14.4	10.1	11.1	14.8	31.4
Phenanthrene	30	30	30.0	31.9	17.2	24.6	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.0149	1.15	0.0115	0.0168	0.0357
Selenium	20	5	20.0	5.32	11.5	4.10	6.02	12.7
Silver	0.8	N/A	18.5	N/A	10.6	N/A	15.6	33.0
								0.00051
Toxaphene	0.78	0.0002	0.780	0.000213	0.447	0.000164	0.000241	0
Tributyltin [TBT]	0.13	0.024	0.130	0.0256	0.0745	0.0197	0.0289	0.0612
2,4,5 Trichlorophenol	136	64	136	68.2	77.9	52.5	77.1	163
Zinc	81	82	279	300	160	231	235	497

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	1299	1208	1776	3758
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.000130	0.000121	0.000177	0.000374
Anthracene	1109	1317	13170	14881	13839	20343	43040
Antimony	6	1071	10710	12101	11254	16543	35000
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	6565	6105	8974	18987
Benzidine	0.0015	0.107	1.07	1.21	1.12	1.65	3.49
Benzo(a)anthracene	0.024	0.025	0.25	0.282	0.263	0.386	0.817
Benzo(a)pyrene	0.0025	0.0025	0.025	0.0282	0.0263	0.0386	0.0817
Bis(chloromethyl)ether	0.0024	0.2745	2.745	3.10	2.88	4.24	8.97
Bis(2-chloroethyl)ether	0.60	42.83	428.3	484	450	661	1399
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	85.3	79.3	116	246
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	3107	2890	4247	8987
Bromoform [Tribromomethane]	66.9	1060	10600	11977	11139	16373	34641
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	520	483	710	1503
Chlordane	0.0025	0.0025	0.025	0.0282	0.0263	0.0386	0.0817
Chlorobenzene	100	2737	27370	30926	28761	42278	89446
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	2068	1923	2826	5980
Chloroform [Trichloromethane]	70	7697	76970	86969	80882	118895	251541
Chromium (hexavalent)	62	502	5020	5672	5275	7754	16405
Chrysene	2.45	2.52	25.2	28.5	26.5	38.9	82.3
Cresols [Methylphenols]	1041	9301	93010	105093	97737	143672	303961
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.0226	0.0210	0.0308	0.0653
4,4'-DDE	0.00013	0.00013	0.0013	0.00147	0.00137	0.00200	0.00424
4,4'-DDT	0.0004	0.0004	0.004	0.00452	0.00420	0.00617	0.0130
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	5344	4970	7306	15457
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	47.9	44.6	65.4	138

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<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	6723	6252	9190	19444
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	37276	34667	50959	107812
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	25.3	23.5	34.6	73.2
1,2-Dichloroethane	5	364	3640	4113	3825	5622	11895
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	622741	579149	851348	1801152
Dichloromethane [Methylene Chloride]	5	13333	133330	150651	140106	205955	435728
1,2-Dichloropropane	5	259	2590	2926	2722	4000	8464
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	1345	1250	1838	3888
Dicofol [Kelthane]	0.30	0.30	3	3.39	3.15	4.63	9.80
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000226	0.000210	0.000308	0.000653
2,4-Dimethylphenol	444	8436	84360	95320	88647	130311	275692
Di- <i>n</i> -Butyl Phthalate	88.9	92.4	924	1044	971	1427	3019
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	9.01E-07	8.38E-07	0.0000012	0.0000026
Endrin	0.02	0.02	0.2	0.226	0.210	0.308	0.653
Epichlorohydrin	53.5	2013	20130	22745	21153	31094	65785
Ethylbenzene	700	1867	18670	21095	19619	28839	61014
Ethylene Glycol	46744	1.68E+07	1.68E+08	18982547 9	17653769 6	25951041 2	549032234
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00113	0.00105	0.00154	0.00326
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.00328	0.00305	0.00447	0.00947
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00768	0.00715	0.0105	0.0222
Hexachlorobutadiene	0.21	0.22	2.2	2.49	2.31	3.39	7.18
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	0.0949	0.0883	0.129	0.274
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	2.94	2.73	4.01	8.49
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	3.85	3.58	5.26	11.1
Hexachlorocyclopentadiene	10.7	11.6	116	131	122	179	379
Hexachloroethane	1.84	2.33	23.3	26.3	24.5	35.9	76.1
Hexachlorophene	2.05	2.90	29	32.8	30.5	44.7	94.7
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	180583	167942	246874	522299
Lead	1.15	3.83	38.3	233	216	317	672
Mercury	0.0122	0.0122	0.122	0.138	0.128	0.188	0.398
Methoxychlor	2.92	3.0	30	33.9	31.5	46.3	98.0
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	11208743	10424131	15323471	32419046
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	118438	110147	161915	342556
Nickel	332	1140	11400	29109	27072	39795	84193
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	21163	19682	28932	61210
N-Nitrosodiethylamine	0.0037	2.1	21	23.7	22.1	32.4	68.6
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	47.5	44.1	64.8	137
Pentachlorobenzene	0.348	0.355	3.55	4.01	3.73	5.48	11.6
Pentachlorophenol	0.22	0.29	2.9	3.28	3.05	4.47	9.47
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00723	0.00673	0.00988	0.0209
Pyridine	23	947	9470	10700	9951	14628	30948
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	2.71	2.52	3.70	7.84
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	298	277	407	861
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	3164	2942	4325	9150
Thallium	0.12	0.23	2.3	2.60	2.42	3.55	7.51
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.124	0.116	0.169	0.359
2,4,5-TP [Silvex]	50	369	3690	4169	3878	5699	12059
1,1,1-Trichloroethane	200	784354	7843540	8862522	8242146	12115954	25633073
1,1,2-Trichloroethane	5	166	1660	1876	1744	2564	5424

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Trichloroethylene [Trichloroethene]	5	71.9	719	812	756	1110	2349
2,4,5-Trichlorophenol	1039	1867	18670	21095	19619	28839	61014
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	186	173	254	539

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	236	286
Cadmium	0.614	0.745
Carbaryl	1.17	1.43
Chlordane	0.00337	0.00409
Chlorpyrifos	0.0345	0.0420
Chromium (trivalent)	213	259
Chromium (hexavalent)	8.94	10.8
Copper	15.7	19.1
Cyanide (free)	9.02	10.9
4,4'-DDT	0.000843	0.00102
Demeton	0.0843	0.102
Diazinon	0.100	0.121
Dicofol [Kelthane]	16.7	20.2
Dieldrin	0.00168	0.00204
Diuron	59.0	71.7
Endosulfan I (<i>alpha</i>)	0.0472	0.0573
Endosulfan II (<i>beta</i>)	0.0472	0.0573
Endosulfan sulfate	0.0472	0.0573
Endrin	0.00168	0.00204
Guthion [Azinphos Methyl]	0.00843	0.0102
Heptachlor	0.00337	0.00409
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.0675	0.0819
Lead	7.11	8.64
Malathion	0.00843	0.0102
Mercury	1.09	1.33
Methoxychlor	0.0253	0.0307
Mirex	0.000843	0.00102
Nickel	68.8	83.6
Nonylphenol	5.56	6.76
Parathion (ethyl)	0.0109	0.0133
Pentachlorophenol	10.3	12.6
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	0.0118	0.0143
Selenium	4.21	5.12
Silver	10.9	13.2
Toxaphene	0.000168	0.000204
Tributyltin [TBT]	0.0202	0.0245
2,4,5 Trichlorophenol	54.0	65.5
Zinc	164	199

City of Houston TPDES Permit No. WQ0010495139
Fact Sheet and Executive Director's Preliminary Decision

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	1243	1509
Aldrin	0.000124	0.000150
Anthracene	14240	17292
Antimony	11580	14062
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	6282	7628
Benzidine	1.15	1.40
Benzo(a)anthracene	0.270	0.328
Benzo(a)pyrene	0.0270	0.0328
Bis(chloromethyl)ether	2.96	3.60
Bis(2-chloroethyl)ether	463	562
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	81.6	99.1
Bromodichloromethane [Dichlorobromomethane]	2973	3610
Bromoform [Tribromomethane]	11461	13917
Cadmium	N/A	N/A
Carbon Tetrachloride	497	603
Chlordane	0.0270	0.0328
Chlorobenzene	29595	35936
Chlorodibromomethane [Dibromochloromethane]	1978	2402
Chloroform [Trichloromethane]	83227	101061
Chromium (hexavalent)	5428	6591
Chrysene	27.2	33.0
Cresols [Methylphenols]	100571	122122
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0216	0.0262
4,4'-DDE	0.00140	0.00170
4,4'-DDT	0.00432	0.00525
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	5114	6210
1,2-Dibromoethane [Ethylene Dibromide]	45.8	55.6
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	6433	7812
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	35671	43315
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	24.2	29.4
1,2-Dichloroethane	3935	4779
1,1-Dichloroethylene [1,1-Dichloroethene]	595944	723646
Dichloromethane [Methylene Chloride]	144168	175062
1,2-Dichloropropane	2800	3400
1,3-Dichloropropene [1,3-Dichloropropylene]	1286	1562
Dicofol [Kelthane]	3.24	3.93
Dieldrin	0.000216	0.000262
2,4-Dimethylphenol	91217	110764
Di- <i>n</i> -Butyl Phthalate	999	1213
Dioxins/Furans [TCDD Equivalents]	8.61E-07	0.0000010
Endrin	0.216	0.262
Epichlorohydrin	21766	26430
Ethylbenzene	20187	24513
	18165728	22058385
Ethylene Glycol	9	0

City of Houston TPDES Permit No. WQ0010495139
Fact Sheet and Executive Director's Preliminary Decision

Fluoride	N/A	N/A
Heptachlor	0.00108	0.00131
Heptachlor Epoxide	0.00313	0.00380
Hexachlorobenzene	0.00735	0.00892
Hexachlorobutadiene	2.37	2.88
Hexachlorocyclohexane (<i>alpha</i>)	0.0908	0.110
Hexachlorocyclohexane (<i>beta</i>)	2.81	3.41
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	3.68	4.47
Hexachlorocyclopentadiene	125	152
Hexachloroethane	25.1	30.5
Hexachlorophene	31.3	38.0
4,4'-Isopropylidenediphenol [Bisphenol A]	172812	209843
Lead	222	270
Mercury	0.131	0.160
Methoxychlor	32.4	39.3
Methyl Ethyl Ketone	10726430	13024951
Methyl <i>tert</i> -butyl ether [MTBE]	113341	137628
Nickel	27856	33826
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	20252	24592
N-Nitrosodiethylamine	22.7	27.5
N-Nitroso-di- <i>n</i> -Butylamine	45.4	55.1
Pentachlorobenzene	3.83	4.66
Pentachlorophenol	3.13	3.80
Polychlorinated Biphenyls [PCBs]	0.00692	0.00840
Pyridine	10239	12434
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.59	3.15
1,1,2,2-Tetrachloroethane	284	345
Tetrachloroethylene [Tetrachloroethylene]	3027	3676
Thallium	2.48	3.01
Toluene	N/A	N/A
Toxaphene	0.118	0.144
2,4,5-TP [Silvex]	3989	4844
1,1,1-Trichloroethane	8481167	10298561
1,1,2-Trichloroethane	1794	2179
Trichloroethylene [Trichloroethene]	777	944
2,4,5-Trichlorophenol	20187	24513
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	178	216



Application to Renew
TPDES Permit Number WQ0010495139
Westway Wastewater Treatment Facility

Prepared Winter 2024



Application to Renew TPDES Permit No. WQ0010495139
Westway WWTF

Prepared Winter 2024



Application to Renew
TPDES Permit Number WQ0010495139
Westway Wastewater Treatment Facility

Prepared Winter 2024

City of Houston | Houston Public Works | Houston Water

Application to Renew TPDES Permit Number WQ0010495139

Westway Wastewater Treatment Facility

Application for a Domestic Wastewater Permit

- 1) Administrative Report 1.0
- 2) Supplemental Permit Information Form (SPIF)
- 3) Domestic Technical Report 1.0
- 4) Domestic Technical Report Worksheet 2.0
- 5) Domestic Worksheet 4.0
- 6) Domestic Worksheet 5.0
- 7) Domestic Worksheet 6.0

Attachments

	<u>Description</u>	<u>Reference</u>
1	Copy of Application Fee Check	Administrative Report 1.0, Section 1
2	Core Data Form	Administrative Report 1.0, Section 3.C.
3	USGS Map	Administrative Report 1.0, Section 13
4	Treatment Units	Domestic Technical Report 1.0, Section 2.B.
5	Process Flow Diagram	Domestic Technical Report 1.0, Section 2.C.
6	Site Drawing	Domestic Technical Report 1.0, Section 3
7	Quarterly TDS and Chloride Monitoring Results	Domestic Technical Report 1.0, Section 6.C.
8	Laboratory Test Reports and COCs	Domestic Technical Report 1.0, Section 7, Table 1.0(2) Domestic Worksheet 4.0, Section 1 Domestic Worksheet 4.0, Section 2
9	Facility Operators	Domestic Technical Report 1.0, Section 8
10	WET Test Results	Domestic Worksheet 5.0, Section 1. Domestic Worksheet 5.0, Section 3.
11	Service Area Map	Domestic Worksheet 6.0, Section 1.E.
12	Effluent Parameters Above the MAL	Domestic Worksheet 6.0, Section 2.C.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
**DOMESTIC WASTEWATER PERMIT APPLICATION
CHECKLIST**

Complete and submit this checklist with the application.

APPLICANT: City of Houston

PERMIT NUMBER: WQ0010495139

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 checked="" type="checkbox"/>	<input 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

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT

ADMINISTRATIVE REPORT 1.0

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 29)

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 checked="" type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information: **Attachment 1**

Mailed Check/Money Order Number: 115320
Check/Money Order Amount: \$1,615.00
Name Printed on Check: Plummer

EPAY Voucher Number:

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

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

For amendments or modifications, describe the proposed changes:

For existing permits:

Permit Number: WQ0010495139

EPA I.D. (TPDES only): TX0026875

Expiration Date: September 26, 2024

Section 3. Facility Owner (Applicant) and Co-Applciant Information (Instructions Page 29)

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

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

City of Houston

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

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

CN: 600128995

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

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

First and Last Name: Carol Haddock

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

Title: Director, Houston Public Works

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

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

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

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

CN:

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., Ms., Miss):

First and Last Name:

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

Title:

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

C. Core Data Form

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

Attachment: **2**

Section 4. Application Contact Information (Instructions Page 30)

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., Ms., Miss): Mr.

First and Last Name: Walid Samarneh

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

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name:

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

Title:

Organization Name:

Mailing Address:

City, State, Zip Code:

Phone No.: Ext.: Fax No.:

E-mail Address:

Check one or both: ☐ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

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

First and Last Name: Carol Haddock

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

Title: Director, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-2500 Ext.: [REDACTED] Fax No.: 832-395-2480

E-mail Address: PublicWorks@houstontx.gov

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

First and Last Name: John Whitmire

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

Title: Mayor

Organization Name: City of Houston

Mailing Address: P.O. Box 1562

City, State, Zip Code: Houston, Texas 77251

Phone No.: 832-395-1011 Ext.: [REDACTED] Fax No.: 832-393-1067

E-mail Address: Mayor.JW@houstontx.gov

Section 6. Billing Information (Instructions Page 30)

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., Ms., Miss): Mr.

First and Last Name: Walid Samarneh

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

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: [REDACTED] Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

Section 7. DMR/MER Contact Information (Instructions Page 31)

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

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

First and Last Name: Walid Samarneh

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

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

DMR data is required to be submitted electronically. Create an account at:

<https://www.tceq.texas.gov/permitting/netdmr/netdmr.html>.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Walid Samarneh

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

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Walid Samarneh

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

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Phone No.: 832-395-5771 Ext.: [REDACTED]

E-mail: Walid.Samarneh@houstontx.gov

D. Public Viewing Information

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

Public building name: City of Houston, Houston Public Works, Wastewater Operations Building

Location within the building: Library

Physical Address of Building: 10500 Bellaire Boulevard

City: Houston

County: Harris

Contact Name: Walid Samarneh, P.E.

Phone No.: 832-395-5771 Ext.: [REDACTED]

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. Public Involvement Plan Form

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

Attachment: N/A

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

- A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN102546199

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

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

Westway Wastewater Treatment Facility

- C. Owner of treatment facility: City of Houston

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

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

Prefix (Mr., Ms., Miss):

First and Last Name: City of Houston

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771

E-mail Address: Walid.Samarneh@houstontx.gov

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

Attachment:

- N/A** E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss):

First and Last Name:

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

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

Prefix (Mr., Ms., Miss): [REDACTED]

First and Last Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

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: [REDACTED]

Section 10. TPDES Discharge Information (Instructions Page 34)

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:

[REDACTED]

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:

[REDACTED]

City nearest the outfall(s): Houston

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

Outfall Latitude: 29.843333

Longitude: -95.546944

- 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: [REDACTED]

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

N/A

N/A Section 11. TLAP Disposal Information (Instructions Page 36)

- 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:

[REDACTED]

- B. City nearest the disposal site: [REDACTED]

- C. County in which the disposal site is located: [REDACTED]

- D. Disposal Site Latitude: N/A

Longitude: [REDACTED]

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

[REDACTED]

- F. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

[REDACTED]

Section 12. Miscellaneous Information (Instructions Page 37)

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.

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:

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number:

Amount past due:

Section 13. Attachments (Instructions Page 38)

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

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

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010495139

Applicant: City of Houston

Certification:

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

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

Signatory name (typed or printed): Carol Haddock, P.E.

Signatory title: Director, Houston Public Works

Signature: _____

(Use blue ink)

Date: _____

Subscribed and Sworn to before me by the said Carol Haddock

on this

15th

day of

March

, 2024.

My commission expires on the

9th

day of

March

, 2027.

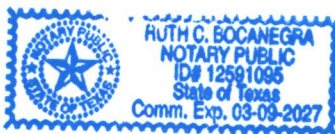
Ruth C. Bocanegra

Notary Public

[SEAL]

Harris

County, Texas



Section 15. Plain Language Summary (Instructions Page 40)

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

City of Houston (CN600128995) operates the Westway Wastewater Treatment Facility (RN102546199), an activated sludge wastewater treatment facility. The facility is located at 10273 Genard Road, in Houston, Harris County, Texas 77041.

This application is for a renewal to discharge an annual average flow of 995,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia-nitrogen (NH₃N), and Escherichia coli (*E. coli*). Additional potential pollutants are included in the permit application package in Domestic Technical Report 1.0, Section 7 – Pollutant Analysis of Treated Effluent and Domestic Technical Report 4.0. Domestic wastewater is treated by activated sludge with biological nitrification. Treatment units include bar screens for preliminary treatment, aeration basins for biological treatment, secondary clarifiers for solids settling, chlorine contact basins for disinfection, digesters for sludge stabilization, and a thickener for solids concentration. Solids from the facility are hauled offsite for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS

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

La ciudad de Houston (CN600128995) opera la instalación de tratamiento de aguas residuales Westway Wastewater Treatment Facility (RN102546199), un lodos activados - aireación prolongada instalación de tratamiento de aguas residuales. La instalación está situada en 10273 Genard Road, Houston, en el condado de Harris, Texas 77041.

Esta solicitud es para la renovación para descargar un flujo medio anual de 995,000 galones por día de aguas residuales domesticas tratadas por el emisario 001.

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY: Application

type: ☒ Renewal ☐ County: _____ ☐ Major Amendment ☐ Minor Amendment ☐ New
Segment Number: 1017

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)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: City of Houston

Permit No. WQ0010495139

EPA ID No. TX0026875

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

10273 Genard Road, Houston, Harris County, Texas 77041

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

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

First and Last Name: Walid Samarneh

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

Title: Managing Engineer, Houston Public Works

Mailing Address: 10500 Bellaire Boulevard

City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

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

N/A

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

Effluent is discharged to Brickhouse Gully (Harris County Flood Control District Ditch E115-00-00); thence to White Oak Bayou above Tidal in Segment No. 1017 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).

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing disturbances, vegetation, and land use are those typical of a wastewater treatment facility.

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

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

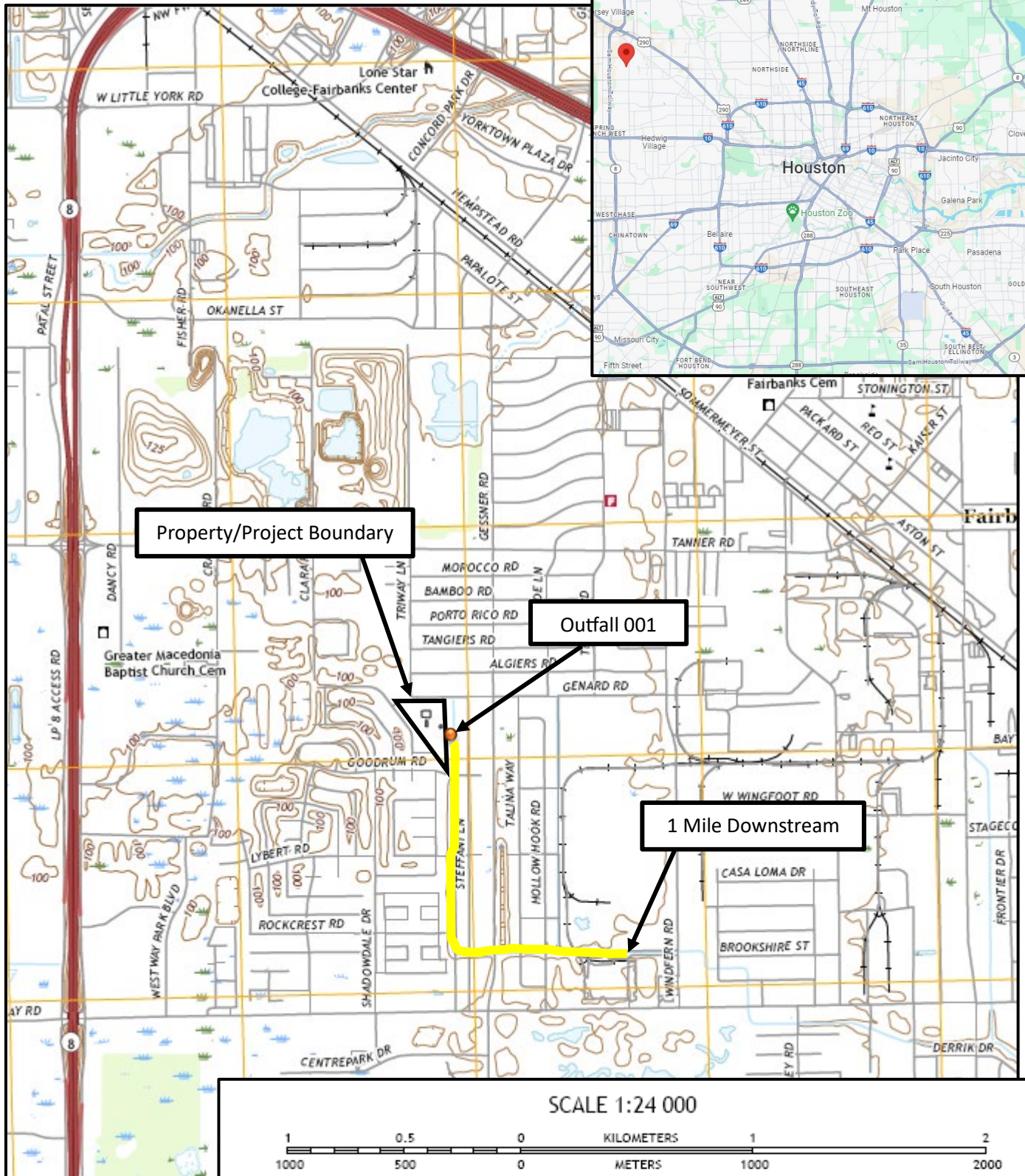
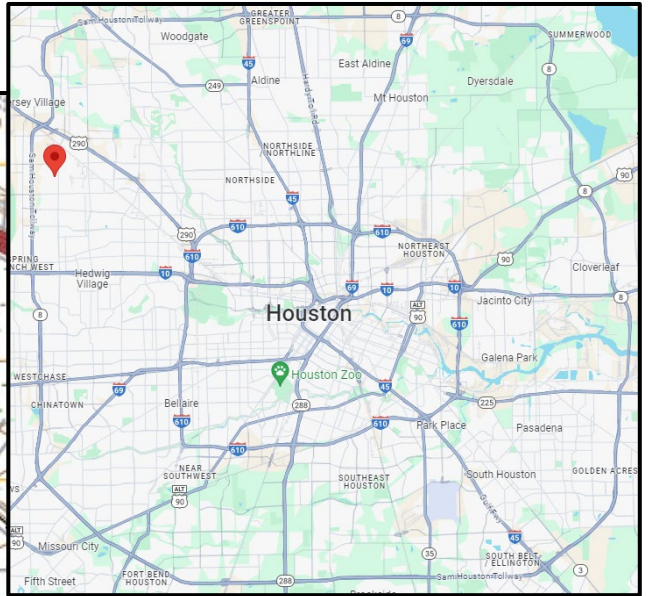
[REDACTED]

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

[REDACTED]

Vicinity Map and Edited USGS Map

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



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) <i>(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)</i>	<input checked="" type="checkbox"/>		Yes
Correct and Current Industrial Wastewater Permit Application Forms <i>(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)</i>	<input checked="" type="checkbox"/>		Yes
Water Quality Permit Payment Submittal Form (Page 19) <i>(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)</i>	<input checked="" type="checkbox"/>		Yes
7.5 Minute USGS Quadrangle Topographic Map Attached <i>(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)</i>	<input checked="" type="checkbox"/>		Yes
Current/Non-Expired, Executed Lease Agreement or Easement Attached	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes
Landowners Map <i>(See instructions for landowner requirements)</i>	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes

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 <i>(See instructions for landowner requirements)</i>	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes
Landowners Labels or USB Drive attached <i>(See instructions for landowner requirements)</i>	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred <i>(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)</i>	<input checked="" type="checkbox"/>		Yes



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.995

2-Hr Peak Flow (MGD): 3.74

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

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

N/A C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase: Existing

Provide the startup date of the facility: Prior to March 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.**

Influent is initially treated by a bar screen (02-Preliminary Treatment-Bar Screen), followed by biological treatment using activated sludge (24-Biological Nitrification-Combined), followed by secondary clarification (22-Secondary Clarification), chlorination (51-Chlorination for Disinfection), dechlorination (50-Dechlorination), and discharge to the receiving stream through Outfall 001. The sludge is aerobically digested (65-Aerobic Digestion-air) before being hauled to the Northwest WWTP or another City of Houston WWTP for further processing and disposal.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Attachment 4		

C. Process Flow Diagram

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

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: 29.843333
- Longitude: -95.546944

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: 6

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

This facility serves the Westbranch residential area in northwest Houston, east of Beltway 8 and south of Highway 290.

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
Westway WWTF Collection System	City of Houston	Publicly Owned	1535
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: Prior to March 1995

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☒ Yes ☐ No

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

Sludge information is maintained as required by Other Requirements No. 7. Effluent TDS and chloride concentration is monitored by quarterly composite sample, as required by Other Requirements No. 9. (See Attachment 7)

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

If **No**, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with

treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

[Click to enter text.](#)

4. Grease and decanted liquid disposal

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

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

[Click to enter text.](#)

E. Stormwater management

1. Applicability

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

☐ Yes ☒ No

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

☒ Yes ☐ No

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

2. MSGP coverage

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. Conditional exclusion

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

☐ Yes ☒ No

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

Click to enter text.

4. Existing coverage in individual permit

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

☐ Yes ☒ No

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

Click to enter text.

5. Zero stormwater discharge

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

☐ Yes ☒ No

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

Click to enter text.

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

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

Click to enter text.

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

Table 1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities Attachment 8

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	7.30	7.30	1	Comp	11/17/23, 8:00am
Total Suspended Solids, mg/l	3.4	3.4	1	Comp	11/17/23, 8:00am
Ammonia Nitrogen, mg/l	0.106	0.106	1	Comp	11/17/23, 8:00am
Nitrate Nitrogen, mg/l	8.32	8.32	1	Comp	11/17/23, 8:00am

Total Kjeldahl Nitrogen, mg/l	1.70	1.70	1	Comp	11/17/23, 8:00am
Sulfate, mg/l	74.7	74.7	1	Comp	11/17/23, 8:00am
Chloride, mg/l	126	126	1	Comp	11/17/23, 8:00am
Total Phosphorus, mg/l	0.179	0.179	1	Comp	11/17/23, 8:00am
pH, standard units	7.50	7.50	1	Grab	11/16/23, 7:12am
Dissolved Oxygen*, mg/l	7.20	7.20	1	Grab	11/16/23, 7:12am
Chlorine Residual, mg/l	<0.1	<0.1	1	Grab	11/16/23, 7:12am
<i>E.coli</i> (MPN/100ml) freshwater	1	1	1	Grab	11/16/23, 7:12am
Enterococci (CFU/100ml) saltwater	n/a	n/a	n/a	n/a	n/a
Total Dissolved Solids, mg/l	657	657	1	Comp	11/17/23, 8:00am
Electrical Conductivity, μ mohs/cm, †	n/a	n/a	n/a	n/a	n/a
Oil & Grease, mg/l	5.86	5.86	1	Grab	11/16/23, 12:11pm
Alkalinity (CaCO ₃)*, mg/l	199	199	1	Comp	11/17/23, 8:00am

*TPDES permits only

†TLAP permits only

N/A 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					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: [Attachment 9](#)

Facility Operator's License Classification and Level: [Attachment 9](#)

Facility Operator's License Number: [Attachment 9](#)

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

☐ Design flow \geq 1 MGD

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	On-Site Owner or Operator	Not Applicable	206.91	Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If “Other” is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Hauled to City of Houston-owned facility for treatment and disposal.

D. Disposal site

Disposal site name: Northwest WWTP

TCEQ permit or registration number: WQ0010495076

County where disposal site is located: Harris

E. Transportation method

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

Name of the hauler: FCC Environmental Services

Hauler registration number: 24903

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)

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:

Reclaimed Water Authorization No. R10495139

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☒ Yes ☐ No

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

On March 31, 2021 the U.S. District Court for the Southern District of Texas approved entry of a Consent Decree (Civil Action No. 4:18-cv-03368) embodying the agreement of the City of Houston ("City") with the United States Environmental Protection Agency ("EPA") and the State of Texas ("State") to improve the City's Wastewater Treatment and Collection System including requirements to address sanitary sewer overflows ("SSOs") and wastewater treatment plant permit exceedances. The consent decree provides formal authorization for the City to continue and build upon its prior and ongoing work for wastewater assessment and rehabilitation programs over the next 15 years. Details of the approved consent decree are posted on the City's website at <https://www.publicworks.houstontx.gov/>.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)**A. RCRA hazardous wastes**

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

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

Section 14. Laboratory Accreditation (Instructions Page 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: Carol Haddock, P.E.

Title: Director, Houston Public Works

Signature: _____



Date: _____

3/15/2024

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: Harris County Flood Control District Ditch E115-00-00

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.

N/A

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.

Channelized drainage ditch with heavy vegetation. Low flow upstream of outfall.

Date and time of observation: 11/21/2023, 9:30am

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 checked="" 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.

- | | |
|--|---|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input checked="" type="checkbox"/> Other(s), specify: <u>None.</u> |

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.

Attachment 8

Grab ☐ Composite ☒

Date and time sample(s) collected: 11/16/23 @ 7:12am; 11/16/23 @ 10:59pm; 11/17/23 @ 8:00am

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	53.1	53.1	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	0.55	0.55	1	0.5
Barium	65.3	65.3	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	16.6	16.6	1	10
Bromoform	<10	<10	1	10
Cadmium	<1	<1	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	<10	<10	1	10
Chloroform	67.2	67.2	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	4.2	4.2	1	2
Chrysene	<5	<5	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
p-Cresol	<10	<10	1	10
Cyanide (*2)	<10	<10	1	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.2	<0.2	1	0.20
Diazinon	<0.5	<0.5	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5	<5	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	<500	<500	1	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	<0.5	<0.5	1	0.5
Malathion	<0.1	<0.1	1	0.1
Mercury	<0.005	<0.005	1	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	2.14	2.14	1	2
Nitrate-Nitrogen	8320	8320	1	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<10	<10	1	10
Polychlorinated Biphenyls (PCB's) (*3)	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	<0.01	<0.01	1	0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	29.4	29.4	1	5

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

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

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

Section 2. Priority Pollutants

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

Attachment 8

Grab ☐ Composite ☒

Date and time sample(s) collected: 11/16/23 @ 10:59pm, 11/17/23 @ 8:00am

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5	<5	1	5
Arsenic	0.55	0.55	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<1	<1	1	1
Chromium (Total)	<3	<3	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Copper	4.2	4.2	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	<0.005	<0.005	1	0.005
Nickel	2.14	2.14	1	2
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	29.4	29.4	1	5
Cyanide (*2)	<10	<10	1	10
Phenols, Total	<10	<10	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	67.2	67.2	1	10
Dichlorobromomethane [Bromodichloromethane]	16.6	16.6	1	10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	1	10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

* For PCBs, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

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

- ☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

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

[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 Equivalenc y 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: **Attachment 10**

48-hour Acute: N/A

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	Attachment 10		

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs - non-categorical:

Number of IUs: 1

Average Daily Flows, in MGD: 0.0839

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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

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

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: 11

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

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

☐ Yes ☒ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☒ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
Attachment 12				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

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.](#)

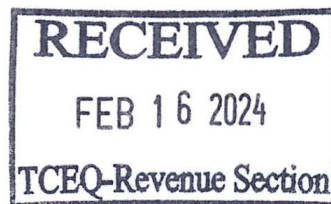
Attachment 1

Copy of Application Fee Check

Administrative Report 1.0, Section 1



PLUMMER



1102-006-02

February 16, 2024

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

Re: City of Houston (CN600128995)
Westway Wastewater Treatment Facility (RN102546199)
Application for Renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No.
WQ0010495139

To Whom It May Concern:

On behalf of the City of Houston, Plummer Associates, Inc. (Plummer) submits the renewal application fee of \$1,615.00 for the above-referenced permit.

Please feel free to contact me at alewis@plummer.com or (512) 687-2154, if you have any questions regarding this submittal.

Sincerely,

PLUMMER
TBPE Firm Registration No. F-13

Ashley Lewis
Water Quality/Permitting Team Leader

Enclosures: Application Fee Check

cc: Ms. Heather Maloney, City of Houston, Houston Public Works

Attachment 2

Core Data Form

Administrative Report 1.0, Section 3.C.



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)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600128995		RN 102546199

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Houston					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits) 746001164	10. DUNS Number (if applicable)
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 type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" 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"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:	10500 Bellaire Boulevard				
	City	Houston	State	TX	ZIP 77072 ZIP + 4 5212
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				Walid.Samarneh@houstontx.gov	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

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.)

Westway Wastewater Treatment Facility

23. Street Address of the Regulated Entity:

(No PO Boxes)

10273 Genard Road

City

Houston

State

TX

ZIP

77041

ZIP + 4

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

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

27. Latitude (N) In Decimal:

28. Longitude (W) In Decimal:

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

29. Primary SIC Code

(4 digits)

30. Secondary SIC Code

(4 digits)

31. Primary NAICS Code

(5 or 6 digits)

32. Secondary NAICS Code

(5 or 6 digits)

4952

22132

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

This facility treats domestic wastewater

34. Mailing Address:

10500 Bellaire Boulevard

City

Houston

State

TX

ZIP

77072

ZIP + 4

5212

35. E-Mail Address:

Walid.Samarneh@houston.tx.gov

36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

(832) 395-5771

(832) 395-5838

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


<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:
	WQ0010495139			

SECTION IV: Preparer Information

40. Name:	Rebecca B'Smith	41. Title:	Environmental Investigator IV
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(832) 395-5874		(832) 395-5838	Rebecca.BSmith@houstontx.gov

SECTION V: Authorized Signature

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

Company:	City of Houston, Houston Public Works	Job Title:	Director, Houston Public Works
Name (In Print):	Carol Haddock, P.E.	Phone:	(832) 395- 2500
Signature:		Date:	3/15/2024

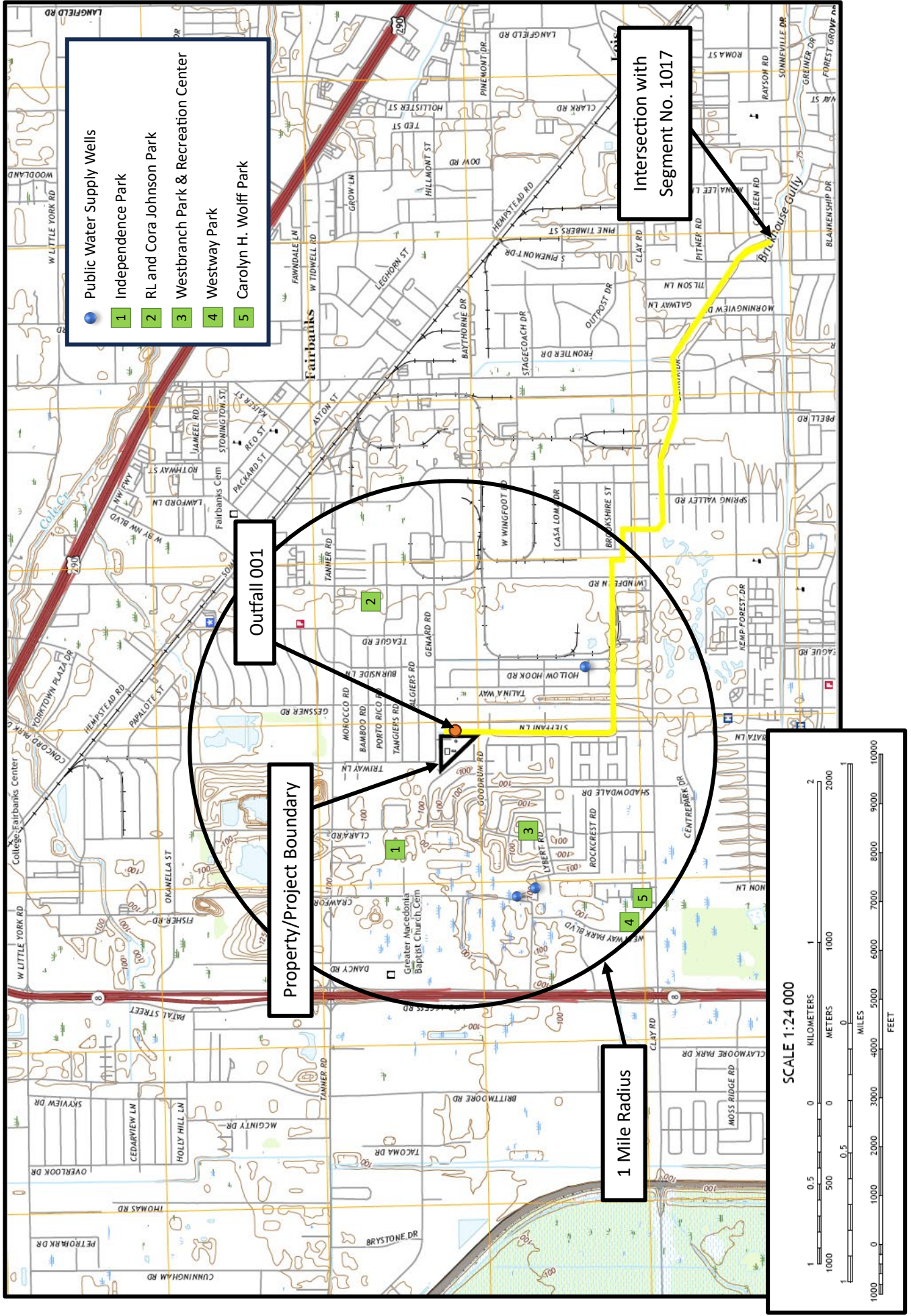
Attachment 3

USGS Map

Administrative Report 1.0, Section 13

USGS Map

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



Attachment 4

Treatment Units

Domestic Technical Report 1.0, Section 2.B.

TPDES Permit Number WQ0010495139
Westway

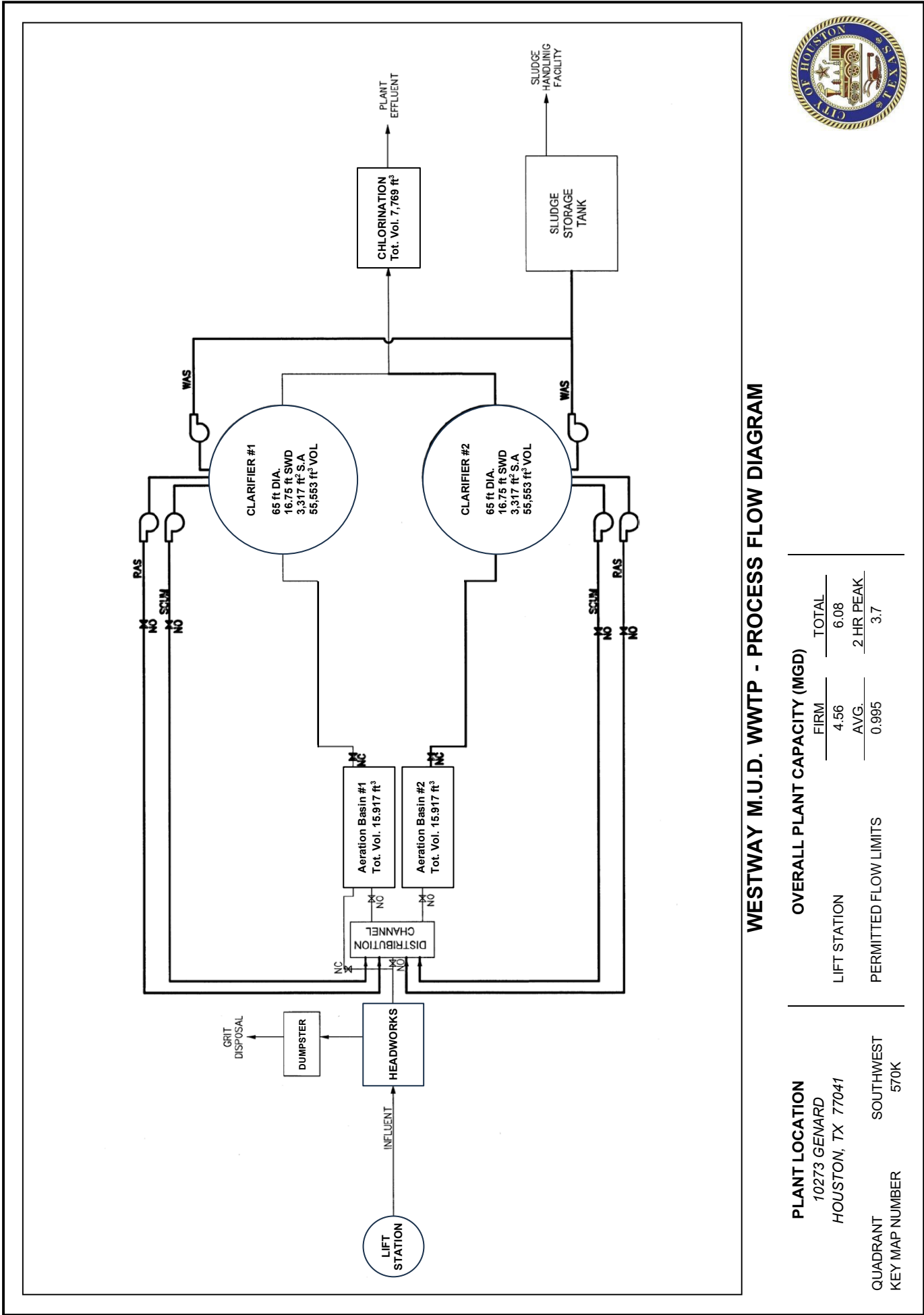
Wastewater Treatment Units

Treatment Unit	Number of Units	Dimensions (L x W x D)
Aeration Basin	2	51.08 ft x 20 ft x 15.58 ft
Aeration Basin Influent Channel	1	53 ft x 5 ft x 15.58 ft
Aeration Basin Distribution Channel	1	51.08 ft x 10 ft x 15.58 ft
Clarifier	2	65 ft dia. x 16.75 ft SWD
Sludge Holding Tank	1	51.08 ft x 20 ft x 16.5 ft
Chlorine Contact Basin	4	29.33 ft x 5 ft x 11.85 ft
Chlorine Contact Basin Influent Channel	1	23 ft x 3 ft x 11.85 ft

Attachment 5

Process Flow Diagram

Domestic Technical Report 1.0, Section 2.C.



WESTWAY M.U.D. WWTWP - PROCESS FLOW DIAGRAM

PLANT LOCATION
10273 GENARD
HOUSTON, TX 77041

QUADRANT SOUTHWEST
KEY MAP NUMBER 570K

OVERALL PLANT CAPACITY (MGD)

LIFT STATION	FIRM	4.56	TOTAL	6.08
	AVG.	0.995	2 HR PEAK	3.7
PERMITTED FLOW LIMITS				



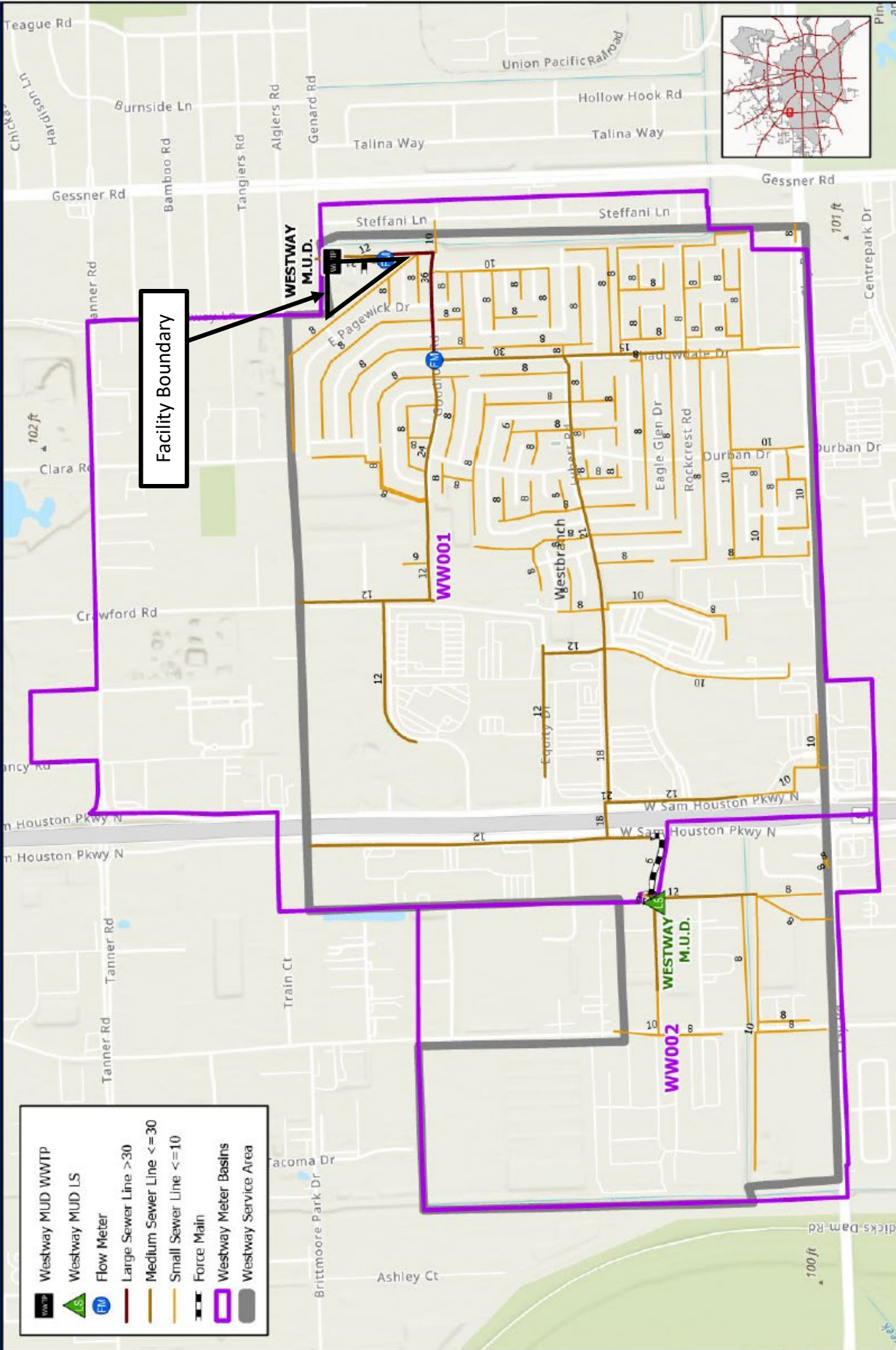
Attachment 6

Site Drawing

Domestic Technical Report 1.0, Section 3

Westway Service Area

- Westway MUD WWTP
- Westway MUD LS
- Flow Meter
- Large Sewer Line >30
- Medium Sewer Line <=30
- Small Sewer Line <=10
- Force Main
- Westway Meter Basins
- Westway Service Area



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



Attachment 7

Quarterly TDS and Chloride Monitoring Results

Domestic Technical Report 1.0, Section 6.C.

TPDES Permit Number WQ0010495139
Westway

Quarterly TDS and Chloride Monitoring Summary

		Sample Date	TDS (mg/L)	Chloride (mg/L)	Laboratory ID
2020	Q1	1/6/2020		112	200107000574
		1/13/2020	568	108	200114001225
		1/20/2020	526		200121001858
		2/3/2020	558	115	200204000244
		2/10/2020	532	122	200211000898
	Q2	4/13/2020	572	119	200414001285
	Q3	7/13/2020	676	176	200714001276
		9/21/2020	584	130	200922002077
	Q4	10/12/2020	588	107	201013001133
2021	Q1	1/6/2021	622	106.51	21010520.06
	Q2	4/5/2021		130.06	21040751.09
		4/5/2021	626		21D0324-01
	Q3	7/19/2021	512	114	21G0871-01
	Q4	10/18/2021	613	126	21J0287-01
2022	Q1	1/18/2022	746		22A0858-01
		1/18/2022		99.14	5314452
	Q2	4/26/2022	630	113	22D1070
	Q3	7/18/2022	662	138	22G0838
	Q4	10/10/2022	691	151	22J0301
2023	Q1	1/17/2023	612	116	23A0552
		3/27/2023	615	125	23C0938
	Q2	4/18/2023	605	127	23D0563
	Q3	9/18/2023	666	121	23I0850
	Q4	12/4/2023	699	129	23L0280



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : WWO Regulatory Compliance
Wastewater Operations Regulatory Affairs
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Carol LaBreche
Phone: (832) 395-5800
FAX: (832) 395-5839

Date: 14-Feb-20

Laboratory #: 200107000574

Sample ID: WWEFF

LogIn Date: 01/07/20

Permit Number: WQ0010495139

Date to Lab: 01/07/20

Sampling Point: Effluent

Date Collected: 01/06/20

Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540D	Total Suspended Solids	11.3	2	mg/L	1/7/20 13:42	v.patel
SM 5210B	Biochemical Oxygen Demand, Carbonaceous	9.98	2.12	mg/L	1/8/20 12:47	s.patel
EPA 300.0	Chloride	112	0.32	mg/L	1/10/20 14:41	e.farciert
350.1,Rev2.0	Ammonia Nitrogen	0.0816	0.05	mg/L	1/7/20 14:33	m.patel

LA: Indicates no sample results due to laboratory accident
ND: Indicates analyte not detectable at method detection limit
NS: Indicates not scheduled for analysis by lab
SM: Indicates result affected by sample matrix issue

Report Approved By: Edmund Hiche

Title: Chemist IV



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : WWO Regulatory Compliance
Wastewater Operations Regulatory Affairs
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Carol LaBreche
Phone: (832) 395-5800
FAX: (832) 395-5839

Date: 14-Feb-20

Laboratory #: 200114001225

Sample ID: WWEFF

LogIn Date: 01/14/20

Permit Number: WQ0010495139

Date to Lab: 01/14/20

Sampling Point: Effluent

Date Collected: 01/13/20

Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	568	10	mg/L	1/16/20 14:00	v.patel
SM 2540D	Total Suspended Solids	6.0	2	mg/L	1/14/20 14:40	j.tian/v.patel
SM 5210B	Biochemical Oxygen Demand, Carbonaceous	4.75	2.24	mg/L	1/15/20 13:18	r.hernandez
EPA 300.0	Chloride	108	0.0769	mg/L	1/16/20 20:48	e.farciert
350.1,Rev2.0	Ammonia Nitrogen	<0.05	0.05	mg/L	1/14/20 13:59	m.patel

LA: Indicates no sample results due to laboratory accident

ND: Indicates analyte not detectable at method detection limit

NS: Indicates not scheduled for analysis by lab

SM: Indicates result affected by sample matrix issue

Report Approved By: _____

Edward Hiche

Title: Chemist IV



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : WWO Regulatory Compliance
Wastewater Operations Regulatory Affairs
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Carol LaBreche
Phone: (832) 395-5800
FAX: (832) 395-5839

Date: 14-Feb-20

Laboratory #: 200121001858

Sample ID: WWEFF

LogIn Date: 01/21/20

Permit Number: WQ0010495139

Date to Lab: 01/21/20

Sampling Point: Effluent

Date Collected: 01/20/20

Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 5210B	Biochemical Oxygen Demand, Carbonaceous	2.56	2.22	mg/L	1/22/20 13:05	s.patel
SM 2540 C	Total Dissolved Solids	526	10	mg/L	1/23/20 14:05	v.patel
SM 2540D	Total Suspended Solids	3.1	2	mg/L	1/21/20 14:28	j.tian/v.patel
350.1,Rev2.0	Ammonia Nitrogen	<0.05	0.05	mg/L	1/21/20 14:30	m.patel

LA: Indicates no sample results due to laboratory accident

ND: Indicates analyte not detectable at method detection limit

NS: Indicates not scheduled for analysis by lab

SM: Indicates result affected by sample matrix issue

Report Approved By: Edmund Hoch

Title: Chemist IV



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : WWO Regulatory Compliance
Wastewater Operations Regulatory Affairs
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Carol LaBreche
Phone: (832) 395-5800
FAX: (832) 395-5839

Date: 31-Mar-20

Laboratory #: 200204000244

Sample ID: WWEFF

LogIn Date: 02/04/20

Permit Number: WQ0010495139

Date to Lab: 02/04/20

Sampling Point: Effluent

Date Collected: 02/03/20

Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	558	10	mg/L	2/6/20 12:55	v.patel
SM 2540D	Total Suspended Solids	8.0	2	mg/L	2/4/20 15:02	j.tian/z.siddiqui
SM 5210B	Biochemical Oxygen Demand, Carbonaceous	4.41	2.13	mg/L	2/5/20 12:58	s.patel
EPA 300.0	Chloride	115	0.077	mg/L	2/4/20 22:49	e.farciert
350.1,Rev2.0	Ammonia Nitrogen	<0.05	0.05	mg/L	2/4/20 14:18	m.patel

LA: Indicates no sample results due to laboratory accident

ND: Indicates analyte not detectable at method detection limit

NS: Indicates not scheduled for analysis by lab

SM: Indicates result affected by sample matrix issue

Report Approved By: Edmund Hiche

Title: Chemist IV



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : WWO Regulatory Compliance
Wastewater Operations Regulatory Affairs
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Carol LaBreche
Phone: (832) 395-5800
FAX: (832) 395-5839

Date: 31-Mar-20

Laboratory #: 200211000898

Sample ID: WVEFF

LogIn Date: 02/11/20

Permit Number: WQ0010495139

Date to Lab: 02/11/20

Sampling Point: Effluent

Date Collected: 02/10/20

Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	532	10	mg/L	2/12/20 15:15	v.patel
SM 2540D	Total Suspended Solids	4.8	2	mg/L	2/11/20 14:36	j.tian/z.siddiqui
SM 5210B	Biochemical Oxygen Demand, Carbonaceous	3.77	2.13	mg/L	2/12/20 13:22	m.maxim
EPA 300.0	Chloride	122	0.077	mg/L	2/14/20 6:21	e.farciert
350.1,Rev2.0	Ammonia Nitrogen	0.0662	0.05	mg/L	2/12/20 12:46	m.patel

LA: Indicates no sample results due to laboratory accident

ND: Indicates analyte not detectable at method detection limit

NS: Indicates not scheduled for analysis by lab

SM: Indicates result affected by sample matrix issue

Report Approved By: _____

Edmund Hichl

Title: Chemist IV



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : INDUSTRIAL WASTE SECTION
Wastewater Operations
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Walid Samarneh
Phone: (832) 395-5800
FAX: (832) 395-5838

Date: 29-Apr-20

Laboratory #: 200414001285
LogIn Date: 04/14/20
Date to Lab: 04/13/20
Date Collected: 04/13/20
Sample Note: Westway Effluent

Sample ID: 5266312
Permit Number: 5017
Sampling Point: 2
Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	572	10	mg/L	4/15/20 15:00	v.patel
EPA 300.0	Chloride	119	0.0769	mg/L	4/17/20 3:55	e.farciert

LA: Indicates no sample results due to laboratory accident
ND: Indicates analyte not detectable at method detection limit
NS: Indicates not scheduled for analysis by lab
SM: Indicates result affected by sample matrix issue

Report Approved By: _____

Edmund Hiche

Title: Chemist IV

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Location: **EFFLUENT** ✓

Sample Reason/Lab Project#:

☒ Permit Requirement ☐ Compliance Verification
☐ Special Project ☐ POTW Permit Application
☐ Other: _____

Sample No. **5266312** ✓ Permit No. **5017** ✓ Outfall: **2** ✓ Scheduled Date: 4/13/2020

Sample Type: **COMP** ✓ Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:	SAMPLE DETAILS:	Temp: _____	GRAB TIME/DATE:	FIELD TESTS:
Begin: 6:00 AM PM	Split Sample: <input type="checkbox"/> Yes <input type="checkbox"/> No		Time: _____ AM PM	pH: _____
End: 6:00 AM PM	# of Bottles: 1 2 3 4 5 ✓		Date: ____/____/____	<input type="checkbox"/> Paper, Lot # _____
Begin Date: 4/12/20	Sample Volume: 200 ml		TRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: 4/13/20 ✓	Sample Interval: Flow min.		Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☐ Yes ☐ No ☐ NA Sampler (Print): **X Yonatan Rodriguez**

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5266312-001 ✓	Chloride, Total (EPA 300.0); TDS (Total Dissolved Solids) (SM 2540 C)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☒ COH Wastewater Lab ☐ City Contract Lab:

Seals Intact: ☐ Yes ☒ No 568 IR Thermometer S/N # 27910254 ☐ S/N # 29650075 ☒ Temp **1.8** °C Initial **JT**

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: **X Yonatan Rodriguez** Date: **4/13/20** Time: **11:25 AM** PM

Received By: **Jiahui Tian** Date: **4/13/20** ✓ Time: **11:25 AM** PM

Relinquished By: _____ Date: ____/____/____ Time: _____ AM PM

Received By: _____ Date: ____/____/____ Time: _____ AM PM

Relinquished By: _____ Received By: _____ Date: ____/____/____ Time: _____ AM PM

* Delivered to Lab if Box is Checked



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY
CERTIFICATE OF ANALYSIS

Client : WWO Regulatory Compliance
Wastewater Operations Regulatory Affairs
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Carol LaBreche
Phone: (832) 395-5800
FAX: (832) 395-5839

Date: 03-Aug-20

Laboratory #: 200714001276
LogIn Date: 07/14/20
Date to Lab: 07/13/20
Date Collected: 07/13/20
Sample Note: Westway Effluent

Sample ID: 5270772
Permit Number: 5017
Sampling Point: 2
Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	676	10	mg/L	7/13/20 14:45	v.patel
EPA 300.0	Chloride	176	0.077	mg/L	7/22/20 23:31	m.parmar

LA: Indicates no sample results due to laboratory accident

ND: Indicates analyte not detectable at method detection limit

NS: Indicates not scheduled for analysis by lab

SM: Indicates result affected by sample matrix issue

Report Approved By: _____

Edmund Hiche

Title: Chemist IV

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway** ✓
10273 Genard, Houston, TX

Sample Reason/Lab Project#:

☒ Permit Requirement ☐ Compliance Verification
☐ Special Project ☐ POTW Permit Application
☐ Other: _____

Location: **EFFLUENT**

Sample No. **5270772** ✓ Permit No. **5017** ✓ Outfall: **2** ✓ Scheduled Date: 7/13/2020
Sample Type: COMP Sample Matrix: Liquid

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:	SAMPLE DETAILS:	Temp: <u>3</u> °C	GRAB TIME/DATE:	FIELD TESTS:
Begin: <u>6</u> : <u>00</u> AM PM	Split Sample: <input type="checkbox"/> Yes <input type="checkbox"/> No		Time: _____ : _____ AM PM	pH: _____
End: <u>6</u> : <u>00</u> AM PM	# of Bottles: <u>1</u> 2 3 4 5 ✓		Date: <u>7</u> / <u>13</u> / <u>20</u>	<input type="checkbox"/> Paper, Lot # _____
Begin Date: <u>7</u> / <u>12</u> / <u>20</u>	Sample Volume: <u>200</u> ml		TRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: <u>7</u> / <u>13</u> / <u>20</u>	Sample Interval: <u>Flow</u> min.		Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☐ Yes ☐ No ☐ NA Sampler (Print): Feng-Chao Kuo

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
✓ 5270772-001	Chloride, Total (EPA 300.0); TDS (Total Dissolved Solids) (SM 2540 C)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☒ COH Wastewater Lab ☐ City Contract Lab:

Seals Intact: ☐ Yes ☒ No 568 IR Thermometer S/N # 27910254 ✓ S/N # 29650075 4 Temp 2.9 °C Initial CH

pH Strip Manufacturer: EMD RH Lot #: HCA02137 RH Initial: CH RH

Relinquished By: Feng-Chao Kuo Date: 7/13/20 Time: 10:35 (AM) PM

Received By: Rita Hernandez Date: 7/13/20 Time: 10:35 (AM) PM

Relinquished By: _____ Date: ____/____/____ Time: ____:____ AM PM

Received By: _____ Date: ____/____/____ Time: ____:____ AM PM

Relinquished By: _____ Received By: _____ Date: ____/____/____ Time: ____:____ AM PM

* Delivered to Lab if Box is Checked



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : INDUSTRIAL WASTE SECTION
Wastewater Operations
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Walid Samarneh
Phone: (832) 395-5800
FAX: (832) 395-5838

Date: 13-Oct-20

Laboratory #: 200922002077
LogIn Date: 09/22/20
Date to Lab: 09/21/20
Date Collected: 09/21/20
Sample Note: Westway Effluent Quarterly Monitoring

Sample ID: 5285772
Permit Number: 5017
Sampling Point: 2
Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	584	10	mg/L	9/22/20 14:30	v.patel
EPA 300.0	Chloride	130	0.077	mg/L	9/22/20 21:50	m.parmar

LA: Indicates no sample results due to laboratory accident
ND: Indicates analyte not detectable at method detection limit
NS: Indicates not scheduled for analysis by lab
SM: Indicates result affected by sample matrix issue

Report Approved By: _____

Edward H. Hill

Title: Chemist IV

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Location: **EFFLUENT**

Sample Reason/Lab Project#:

☒ Permit Requirement ☐ Compliance Verification
☐ Special Project ☐ POTW Permit Application
☐ Other: _____

Sample No. **5285772** Permit No. **5017** Outfall: **2** Scheduled Date: **9/21/2020**

Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:	SAMPLE DETAILS:	GRAB TIME/DATE:	FIELD TESTS:
Begin: <u>6:00</u> AM PM	Split Sample: <input type="checkbox"/> Yes <input type="checkbox"/> No	Time: _____ AM PM	pH: _____
End: <u>6:00</u> AM PM	# of Bottles: <u>1</u> 2 3 4 5 <input checked="" type="checkbox"/>	Date: <u>9/21/20</u>	<input type="checkbox"/> Paper, Lot # _____
Begin Date: <u>9/20/20</u>	Sample Volume: <u>200</u> ml	FRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: <u>9/21/20</u>	Sample Interval: <u>Flow</u> min.	Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☐ Yes ☐ No ☐ NA Sampler (Print): Feng-Chao Kuo

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5285772-001	Chloride, Total (EPA 300.0); TDS (Total Dissolved Solids) (SM 2540 C)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☒ COH Wastewater Lab ☐ City Contract Lab:

Seals Intact: ☒ Yes ☐ No 568 IR Thermometer S/N # 27910254 ☒ S/N # 29650075 Temp 36 °C Initial PH

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: Feng-Chao Kuo Date: 9/21/20 Time: 10:49 ~~AM~~ PM

Received By: Rita Hernandez Date: 9/21/20 Time: 10:49 ~~AM~~ PM

Relinquished By: _____ Date: _____/_____/____ Time: _____ AM PM

Received By: _____ Date: _____/_____/____ Time: _____ AM PM

Relinquished By: _____ Received By: _____ Date: _____/_____/____ Time: _____ AM PM

* Delivered to Lab if Box is Checked



HOUSTON PUBLIC WORKS
HOUSTON WATER
WASTEWATER OPERATIONS LABORATORY

CERTIFICATE OF ANALYSIS

Client : INDUSTRIAL WASTE SECTION
Wastewater Operations
10500 Bellaire Blvd.
Houston, Texas 77072

ATTN: Walid Samarneh
Phone: (832) 395-5800
FAX: (832) 395-5838

Date: 29-Oct-20

Laboratory #: 201013001133
LogIn Date: 10/13/20
Date to Lab: 10/12/20
Date Collected: 10/12/20
Sample Note: Westway Effluent

Sample ID: 5293912
Permit Number: 5017
Sampling Point: 2
Sample Type: Composite

METHOD	TEST	RESULT	MDL	UNITS	ANALYSIS DATE	ANALYST
SM 2540 C	Total Dissolved Solids	588	10	mg/L	10/14/20 14:30	v.patel

LA: Indicates no sample results due to laboratory accident

ND: Indicates analyte not detectable at method detection limit

NS: Indicates not scheduled for analysis by lab

SM: Indicates result affected by sample matrix issue

Report Approved By:

A handwritten signature in black ink, appearing to read "Edward H. H. H.", written over a horizontal line.

Title: Chemist IV

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Location: **EFFLUENT**

Sample No. **5293912** Permit No. **5017** Outfall: **2** Scheduled Date: **10/9/2020**
Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:	SAMPLE DETAILS: Temp: <u>5°C</u>	GRAB TIME/DATE:	FIELD TESTS:
Begin: <u>06:00</u>	Split Sample: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Time: _____	pH: _____
End: <u>06:00</u>	# of Bottles: <u>1</u> 2 3 4 5 <input checked="" type="checkbox"/>	Date: <u> </u> / <u> </u> / <u> </u>	<input type="checkbox"/> Paper, Lot # _____
Begin Date: <u>10/11/20</u>	Sample Volume: <u>200</u> ml	TRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: <u>10/12/20</u>	Sample Interval: <u>Flow</u> min.	Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☒ Yes ☐ No ☐ NA Sampler (Print): Feng-Chao Kuo

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5293912-004	TDS (Total Dissolved Solids) (SM 2540 C or 160.1)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☒ COH Wastewater Lab ☐ City Contract Lab:

Seals Intact: ☒ Yes ☐ No 568 IR Thermometer S/N # 27910254 ☒ S/N # 29650075 Temp 23 °C Initial PH

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: Feng-Chao Kuo Date: 10/12/2020 Time: 9:55

Received By: Rita Hernandez Date: 10/12/2020 Time: 9:55

Relinquished By: _____ Date: / / Time: _____

Received By: _____ Date: / / Time: _____

Relinquished By: _____ Received By: _____ Date: / / Time: _____

* Delivered to Lab if Box is Checked

**LABORATORY TEST RESULTS**

Job ID : 20101195

Date 10/23/2020

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5293912

Job Sample ID: 20101195.14

Date Collected: 10/12/20

Sample Matrix Liquid

Time Collected: 06:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MLQ	Q	Date Time	Analyst
EPA 300.0	Anions								
	Chloride	107.13	mg/L	20.00	0.400	2		10/22/20 12:46	RR

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Location: **EFFLUENT**

Sample No. **5293912** Permit No. **5017** Outfall: **2** Scheduled Date: **10/9/2020**
Sample Type: **COMP** Sample Matrix: **Liquid**
SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure:

COMPOSITE TIME/DATE:	SAMPLE DETAILS: Temp: <u>5°C</u>	GRAB TIME/DATE:	FIELD TESTS:
Begin: <u>06:00</u>	Split Sample: <input type="checkbox"/> Yes <input type="checkbox"/> No	Time: _____	pH: _____
End: <u>06:00</u>	# of Bottles: <u>1</u> 2 3 4 5 <input checked="" type="checkbox"/>	Date: ____/____/____	<input type="checkbox"/> Paper, Lot # _____
Begin Date: <u>10/11/20</u>	Sample Volume: <u>200</u> ml	TRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: <u>10/12/20</u>	Sample Interval: <u>Flow</u> min.	Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☒ Yes ☐ No ☐ NA Sampler (Print): Feng-Chao Kuo

Comments:

* <u>HA</u>	Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
<input checked="" type="checkbox"/>	5293912-003	Chloride, Total (300.0)		1 L Polyethylene	Cool <6°C	1
	LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☐ COH Wastewater Lab ☒ City Contract Lab: A&B
Seals Intact: ☐ Yes ☐ No 568 IR Thermometer S/N # 27910254 ☐ S/N # 29650075 ☐ Temp _____ °C Initial _____
pH Strip Manufacturer: _____ Lot #: _____ Initial: _____
Relinquished By: Feng-Chao Kuo Date: 10/16/20 Time: 13:23
Received By: Allison Diamond Date: 10/16/20 Time: 13:23
Relinquished By: Allison Diamond Date: 10/16/20 Time: 15:55
Received By: [Signature] Date: 11/16/2020 Time: 15:55
Relinquished By: _____ Received By: _____ Date: ____/____/____ Time: ____:____

* Delivered to Lab if Box is Checked

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Location: **EFFLUENT**

Sample No. **5285782** Permit No. **5017** Outfall: **2** Scheduled Date: **1/4/2021**

Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure:

COMPOSITE TIME/DATE:		SAMPLE DETAILS:		GRAB TIME/DATE:		FIELD TESTS:	
Begin:	<u>06:00</u>	Split Sample:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Time:		pH:	
End:	<u>06:00</u>	# of Bottles:	<u>1</u> 2 3 4 5 <input checked="" type="checkbox"/>	Date:		<input type="checkbox"/> Paper, Lot #	
Begin Date:	<u>1/5/21</u>	Sample Volume:	<u>200</u> ml	TRC		<input type="checkbox"/> Meter, S/N	
End Date:	<u>1/6/21</u>	Sample Interval:	<u>Flow</u> min.	Temperature			

Autosampler Secured/Locked? ☒ Yes ☐ No ☐ NA Sampler (Print):

Comments:

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5285782-001	Chloride, Total (EPA 300.0); TDS (Total Dissolved Solids) (SM 2540 C)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☐ COH Wastewater Lab ☒ City Contract Lab: A&B

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

pH Strip Manufacturer: Lot #: Initial:

Relinquished By: Jung-Chao Kuo Date: 1/8/2021 Time: 12:33

Received By: [Signature] Date: 1/8/21 Time: 12:33

Relinquished By: Date: Time:

Received By: Date: Time:

Relinquished By: Received By: Date: Time:

* Delivered to Lab if Box is Checked

**LABORATORY TEST RESULTS**

Job ID : 21010520

Date 1/15/2021

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5285782

Date Collected: 01/06/21

Time Collected: 06:00

Other Information:

Job Sample ID: 21010520.06

Sample Matrix Water

% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	ML	Q	Date Time	Analyst
SM 2540C	Total Dissolved Solids								
	TDS	622.00	mg/L	1	3.4	10		01/12/21 15:05	AJ
EPA 300.0	Anions								
	Chloride	106.51	mg/L	20.00	0.400	2		01/12/21 12:08	RR

Job ID: 21040751



Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: Westway
10273 Genard, Houston, TX

Location: EFFLUENT Biomonitoring

Sample Reason/Lab Project#:

☒ Permit Requirement
☐ Special Project
☐ Other: _____

☐ Compliance Verification
☐ POTW Permit Application

Sample No. 5288902

Permit No. 5017

Outfall: 2_Bio

Scheduled Date: 4/6/2021

Sample Type: COMP

Sample Matrix: Liquid

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:

SAMPLE DETAILS:

GRAB TIME/DATE:

FIELD TESTS:

Begin: 06:00 AM PM

Split Sample: ☐ Yes ☒ No

Time: _____ AM PM

pH: _____

End: 06:00 AM PM

of Bottles: 2 3 4 5

Date: 4/1/21

☐ Paper, Lot # _____

Begin Date: 4/4/21

Sample Volume: 200 ml

FRC _____, Lot #84032C

☐ Meter, S/N _____

End Date: 4/5/21

Sample Interval: Flow min

Temperature _____ °C, S/N _____

Autosampler Secured/Locked? ☒ Yes ☐ No ☐ NA

Sampler (Print): Feng-Chao Kuo

Comments:

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5288902-001	Chloride, Total (300.0)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: _____ COH Wastewater Lab ☒ City Contract Lab: A&BSeals Intact: ☐ Yes ☐ No 568 IR Thermometer S/N # 27910254 S/N # 29650075 Temp _____ °C Initial _____

pH Strip Manufacturer: _____ Lot #: _____

Relinquished By: Feng-Chao Kuo Date: 4/9/21 Time: 13:54 AM PM

Received By: _____ Date: 4/9/21 Time: 13:54 AM PM

Relinquished By: _____ Date: 4/9/21 Time: 15:55 AM PM

Received By: Valerie H. Date: 4/9/21 Time: 15:55 AM PM

Relinquished By: _____ Received By: _____ Date: 4/1/21 Time: _____ AM PM

* Delivered to Lab if Box is Checked

Temp: 0.7°C
102002320
(51)

**LABORATORY TEST RESULTS**

Job ID : 21040751

Date 4/16/2021

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5288902

Date Collected: 04/05/21

Time Collected: 06:00

Other Information:

Job Sample ID: 21040751.09

Sample Matrix Water

% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
EPA 300.0	Anions								
	Chloride	130.06	mg/L	20.00	0.400	2		04/13/21 12:28	RR

ab-q212-0321

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Location: **EFFLUENT Biomonitoring**

Sample Reason/Lab Project#:

☒ Permit Requirement ☐ Compliance Verification
☐ Special Project ☐ POTW Permit Application
☐ Other: _____

Sample No. **5288902** Permit No. **5017** Outfall: **2_Bio** Scheduled Date: **4/6/2021**
Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:	SAMPLE DETAILS:	GRAB TIME/DATE:	FIELD TESTS:
Begin: <u>06:00</u> AM PM	Split Sample: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Time: _____ AM PM	pH: _____
End: <u>06:00</u> AM PM	# of Bottles: <u>(1)</u> 2 3 4 5	Date: <u>4/5/21</u>	<input type="checkbox"/> Paper, Lot # _____
Begin Date: <u>4/4/21</u>	Sample Volume: <u>200</u> ml	FRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: <u>4/5/21</u>	Sample Interval: <u>Flow</u> min.	Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☒ Yes ☐ No ☒ NA Sampler (Print): Feng-Chao Kuo

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5288902-002	TDS (Total Dissolved Solids) (SM 2540 C or 160.1)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☒ COH Wastewater Lab ☐ City Contract Lab:

Seals Intact: ☐ Yes ☐ No 568 IR Thermometer S/N # 27910254 ☐ S/N # 29650075 Temp 5.4 °C Initial AF

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: Feng-Chao Kuo Date: 4/5/21 Time: 11:18 AM PM

Received By: A.F. Date: 4/5/21 Time: 11:18 AM PM

Relinquished By: _____ Date: _____/_____/____ Time: _____ AM PM

Received By: _____ Date: _____/_____/____ Time: _____ AM PM

Relinquished By: _____ Received By: _____ Date: _____/_____/____ Time: _____ AM PM

* Delivered to Lab if Box is Checked

* Thermometer S/N 192190447



July 13, 2021

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 04/05/21.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Maloney
Environmental Investigator V

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Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 5017
Project Manager: Regulatory Compliance

Reported:
07/13/2021 15:48

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
21D0324-01	EFF_Bio.WW	Water	04/05/2021 06:00	04/05/2021 11:18



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 5017
Project Manager: Regulatory Compliance

Reported:
07/13/2021 15:48

Sample Results

Sample: EFF_Bio.WW
21D0324-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
---------	--------	------	----	----	-------	---------------	---------------	---------------------	--------

Wet Chemistry

Total Dissolved Solids	626		20.0	20.0	mg/L	04/06/2021 14:56	04/06/2021 15:21	VP	SM 2540 C
-------------------------------	------------	--	------	------	------	------------------	------------------	----	-----------



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 5017
Project Manager: Regulatory Compliance

Reported:
07/13/2021 15:48

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B21D074 - SM 2540 C, E										
Blank (B21D074-BLK1)										
Total Dissolved Solids	ND		20.0	mg/L						
Prepared: 04/06/21 14:56 Analyzed: 04/06/21 15:21										
LCS (B21D074-BS1)										
Total Dissolved Solids	156			mg/L	150		104	0-200		
Prepared: 04/06/21 14:56 Analyzed: 04/06/21 15:21										
Duplicate (B21D074-DUP1)										
Total Dissolved Solids	624		20.0	mg/L		626			0.320	10
Source: 21D0324-01										
Prepared: 04/06/21 14:56 Analyzed: 04/06/21 15:21										



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 5017
Project Manager: Regulatory Compliance

Reported:
07/13/2021 15:48

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit

Company Name:	Westway
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	WW



Sampler:	Fewg-Chad Kuo
IWS Sample Reason	
<input type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	

21D0324



Composite Info			
Sample ID:	21D0324-01		
Split Samples:	Yes	No	
Number of bottles:	1 2 3 4 5	1 2 3 4 5	
Sample Volume:	200 mL	mL	
Sample Interval:	Flow min	min	
Autosampler secured/locked:	Yes	No	N/A
Comp Temp(°C)			

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
21D0324-01	1	C	W	EFF_Bio_WW	4/4/21 6:00	4/5/21 6:00	(1) 1 L PE or Glass Cool <6°C	TDS 2540 C		

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
			A. Fewg	4/5/21 - 1118	COH
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard, Houston, TX

Sample Reason/Lab Project#:

☒ Permit Requirement ☐ Compliance Verification
☐ Special Project ☐ POTW Permit Application
☐ Other: _____

Location: **EFFLUENT Biomonitoring**

Sample No. **5288902** Permit No. **5017** Outfall: **2_Bio** Scheduled Date: **4/6/2021**

Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:

SAMPLE DETAILS:

GRAB TIME/DATE:

FIELD TESTS:

Begin: **06:00 AM** PMSplit Sample: ☐ Yes ☒ No

Time: _____ AM PM

pH: _____

End: **06:00 AM** PM# of Bottles: **1** 2 3 4 5Date: **4/5/21**☐ Paper, Lot # _____Begin Date: **4/4/21**Sample Volume: **200** ml

FRC _____, Lot #84032C

☐ Meter, S/N _____End Date: **4/5/21**Sample Interval: **Flow** min.

Temperature _____ °C, S/N _____

Autosampler Secured/Locked? ☒ Yes ☐ No ☒ NASampler (Print): **Feng-Chao Kuo**

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5288902-002	TDS (Total Dissolved Solids) (SM 2540 C or 160.1)		1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☒ COH Wastewater Lab ☐ City Contract Lab:

Seals Intact: ☐ Yes ☐ No 568 IR Thermometer S/N # 27910254 ☐ S/N # 29650075 ☐ Temp **5.4** °C Initial **AF**

pH Strip Manufacturer: _____ Lot #: _____

Initial: _____

Relinquished By: **Feng-Chao Kuo**Date: **4/5/21**Time: **11:18** AM PMReceived By: **A.F.**Date: **4/5/21**Time: **11:18** AM PMRelinquished By: _____ Date: **4/5/21**

Time: _____ AM PM

Received By: _____ Date: **4/5/21**

Time: _____ AM PM

Relinquished By: _____ Received By: _____ Date: **4/5/21** Time: _____ AM PM

* Deliver to Lab if Box is Checked

* **Thermometer** S/N **192190447**



November 09, 2021

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 7/19/2021.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Maloney
Environmental Investigator V



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/09/2021 08:57

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/09/2021 08:57

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
21G0871-01	EFF_Bio.WW	Water	07/19/2021 07:00	07/19/2021 14:39



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/09/2021 08:57

Sample Results

Sample: EFF_Bio.WW
21G0871-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	512		20.0	20.0	mg/L	07/21/2021 15:15	07/23/2021 10:26	VP	SM 2540 C
Chloride	114		0.0769	1.00	mg/L	08/09/2021 20:36	08/09/2021 20:36	LMB	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/09/2021 08:57

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B21G279 - SM 2540 C, E										
Blank (B21G279-BLK1)										
Total Dissolved Solids	ND		20.0	mg/L						
					Prepared: 07/21/21 15:15 Analyzed: 07/23/21 10:26					
LCS (B21G279-BS1)										
Total Dissolved Solids	160			mg/L	150		107	90-110		
					Prepared: 07/21/21 15:15 Analyzed: 07/23/21 10:26					
Duplicate (B21G279-DUP1)										
Total Dissolved Solids	518		20.0	mg/L		512			1.17	10
Batch: B21H073 - EPA 300.0										
Blank (B21H073-BLK1)										
Chloride	ND		0.100	mg/L						
					Prepared: 08/09/21 16:32 Analyzed: 08/09/21 16:32					
LCS (B21H073-BS1)										
Chloride	1.01		0.100	mg/L	1.00		101	90-110		
					Prepared: 08/09/21 16:10 Analyzed: 08/09/21 16:10					
Duplicate (B21H073-DUP1)										
Chloride	283		2.00	mg/L		286			1.06	15
					Prepared: 08/09/21 17:16 Analyzed: 08/09/21 17:16					
Matrix Spike (B21H073-MS1)										
Chloride	406		2.00	mg/L	120	286	100	80-120		
					Prepared: 08/09/21 17:39 Analyzed: 08/09/21 17:39					
Matrix Spike Dup (B21H073-MSD1)										
Chloride	408		2.00	mg/L	120	286	102	80-120	0.565	15
					Prepared: 08/09/21 18:01 Analyzed: 08/09/21 18:01					



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/09/2021 08:57

Notes and Definitions

Item	Definition
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/09/2021 08:57

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos':. QueryName = SR_SampleAnalysisList Default Report (not modified) VERSION 6.20:2007
	2540-C_TDS	(Water)	B-Flags used
	2540-C_TDS	(Water)	H-Flags used
	2540-C_TDS	(Water)	J-Flags used
	2540-C_TDS	(Water)	Result calculations based on MDL
	300.0_Cl	(Water)	B-Flags used
	300.0_Cl	(Water)	H-Flags used
	300.0_Cl	(Water)	J-Flags used
	300.0_Cl	(Water)	Result calculations based on MDL
B21H073-MS1	300.0_Cl	Chloride	Comment: MS/MSD recovery could not be calculated due to high analyte concentrations in the sample.
B21H073-MSD1	300.0_Cl	Chloride	Comment: MS/MSD recovery could not be calculated due to high analyte concentrations in the sample.



Company Name:	Westway WWTP Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	<i>B. Miller</i>
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	

21G0871



Composite Info			
Sample ID:	21G0871-01		
Split Samples:	Yes (No)	Yes	No
Number of bottles:	12345	12345	
Sample Volume:	Flow mL	mL	
Sample Interval:	60 min	min	
Autosampler secured/locked:	(Yes) No N/A	Yes	No N/A
Comp Temp(°C)	5.8		

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
21G0871-01	2	C	W	EFF_Bio_WW	8:00 07/18/21	7:00 07/19/21	(1) 1 L PE Cool <6°C (1) 1 L PE or Glass Cool <6°C	Chloride 300.0 TDS 2540 C		

Relinquished by: (Signature)	07/19/21	Date/Time	Received by: (Signature)	7/19/21-1439	Date/Time	Location
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Location



January 04, 2022

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 10/18/2021.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Maloney
Environmental Investigator V



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
01/04/2022 09:06

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
01/04/2022 09:06

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
21J0287-01	EFF_Bio.WW	Water	10/18/2021 06:00	10/18/2021 11:06



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
01/04/2022 09:06

Sample Results

Sample: EFF_Bio.WW
21J0287-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	613		5.0	5.0	mg/L	10/20/2021 13:45	10/22/2021 10:42	VP	SM 2540 C
Chloride	126		0.384	5.00	mg/L	10/27/2021 22:24	10/27/2021 22:24	LMB	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
01/04/2022 09:06

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B21J301 - SM 2540 C, E										
Blank (B21J301-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L	Prepared: 10/20/21 13:45	Analyzed: 10/22/21 10:42				
LCS (B21J301-BS1)										
Total Dissolved Solids	150			mg/L	Prepared: 10/20/21 13:45	Analyzed: 10/22/21 10:42	150	100 85-115		
Duplicate (B21J301-DUP1)										
Total Dissolved Solids	604	Source: 21J0287-01	5.0	mg/L	Prepared: 10/20/21 13:45	Analyzed: 10/22/21 10:42	613		1.48	10
Batch: B21J432 - EPA 300.0										
Blank (B21J432-BLK1)										
Chloride	ND		0.100	mg/L	Prepared: 10/27/21 16:55	Analyzed: 10/27/21 16:55				
LCS (B21J432-BS1)										
Chloride	1.01		0.100	mg/L	Prepared: 10/27/21 16:30	Analyzed: 10/27/21 16:30	1.00	101 90-110		
Duplicate (B21J432-DUP2)										
Chloride	1060	Source: 21J0827-01R	10.0	mg/L	Prepared: 10/27/21 18:11	Analyzed: 10/27/21 18:11	1060		0.227	15
Matrix Spike (B21J432-MS2)										
Chloride	1700	Source: 21J0827-01R	10.0	mg/L	Prepared: 10/27/21 18:36	Analyzed: 10/27/21 18:36	600 1060	107 80-120		
Matrix Spike Dup (B21J432-MSD2)										
Chloride	1710	Source: 21J0827-01R	10.0	mg/L	Prepared: 10/27/21 19:02	Analyzed: 10/27/21 19:02	600 1060	110 80-120	0.879	15



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
01/04/2022 09:06

Notes and Definitions

Item	Definition
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
01/04/2022 09:06

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos':. QueryName = SR_SampleAnalysisList Default Report (not modified) VERSION 6.20:2007
2540-C_TDS		(Water)	B-Flags used
2540-C_TDS		(Water)	H-Flags used
2540-C_TDS		(Water)	J-Flags used
2540-C_TDS		(Water)	Result calculations based on MDL
300.0_Cl		(Water)	B-Flags used
300.0_Cl		(Water)	H-Flags used
300.0_Cl		(Water)	J-Flags used
300.0_Cl		(Water)	Result calculations based on MDL



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	<i>Feng-Chao Kuo</i>
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
Westway Pollutants	

21J0287



Composite Info	
Sample ID:	21J0287-01
Split Samples:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Number of bottles:	(1) 2 3 4 5 1 2 3 4 5
Sample Volume:	200 mL
Sample Interval:	Flow min
Autosampler secured/locked:	(Yes) No N/A Yes No N/A
Comp Temp(°C)	

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
21J0287-01	1	C	W	EFF_Bio.WW	10/17/21 0600	10/18/21 0600	(1) 1 L PE Cool <6°C	Chloride 300.0 TDS 2540-C *		

*C13 - Analysis is would not print on COC but is in the LIMS system. CRD 10/06/21.

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>Feng-Chao Kuo</i>	10/18/21 - 1104		<i>A. Kuo</i>	10/18/21 - 1106	<i>COH</i>
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location



February 08, 2022

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 1/18/2022.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Maloney
Environmental Investigator V



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
02/08/2022 08:02

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
02/08/2022 08:02

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
22A0858-01	EFF_Bio.WW	Water	01/18/2022 06:00	01/18/2022 10:50



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
02/08/2022 08:02

Sample Results

Sample: EFF_Bio.WW
22A0858-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	746		5.0	5.0	mg/L	01/20/2022 14:15	01/21/2022 14:22	VP	SM 2540 C



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
02/08/2022 08:02

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B22A319 - SM 2540 C, E										
Blank (B22A319-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L						
Prepared: 01/20/22 14:15 Analyzed: 01/21/22 14:22										
LCS (B22A319-BS1)										
Total Dissolved Solids	148			mg/L	150		98.7	85-115		
Prepared: 01/20/22 14:15 Analyzed: 01/21/22 14:22										
Duplicate (B22A319-DUP1)										
Total Dissolved Solids	799		5.0	mg/L		746			6.86	10
Source: 22A0858-01 Prepared: 01/20/22 14:15 Analyzed: 01/21/22 14:22										



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
02/08/2022 08:02

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
02/08/2022 08:02

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos':. QueryName = SR_SampleAnalysisList Default Report (not modified) VERSION 6.20:2007
	2540-C_TDS	(Water)	B-Flags used
	2540-C_TDS	(Water)	H-Flags used
	2540-C_TDS	(Water)	J-Flags used
	2540-C_TDS	(Water)	Result calculations based on MDL



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	<i>Feng-Chao Kuo</i>
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
Westway Pollutants	

22A0858



Composite Info			
Sample ID:	22A0858-01	Yes	No
Split Samples:	1 2 3 4 5	1 2 3 4 5	
Number of bottles:	1 2 3 4 5	1 2 3 4 5	
Sample Volume:	1000 mL 200 mL	mL	
Sample Interval:	Flow min	min	
Autosampler secured/locked:	Yes No N/A	Yes No N/A	
Comp Temp(°C)			

Field Test Traceability Info			
TRC ID:			
Temperature ID:			
pH Measured By:		Paper	Meter
pH ID:			
Eff Sampler temp(°C)			
Inf Sampler temp(°C)			

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
22A0858-01	1	C	W	EFF_Bio.WW	1/17/22 0600	1/18/22 0600	(1) 1 L PE Cool <6°C	TDS 2540 C	N/A	

Relinquished by: (Signature)	<i>Feng-Chao Kuo</i>	Date/Time	1/18/22 - 1050	Location		Received by: (Signature)	<i>A.T.</i>	Date/Time	1/18/22 - 1050	Location	COH
Relinquished by: (Signature)		Date/Time		Location		Received by: (Signature)		Date/Time		Location	

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard Rd, Houston, TX

Location: **EFFLUENT**

Sample No. **5314452** Permit No. **5017** Outfall: **2** Scheduled Date: **01/19/22**

Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure:

COMPOSITE TIME/DATE:		SAMPLE DETAILS: Temp: _____		GRAB TIME/DATE:		FIELD TESTS:	
Begin: <u>06:00</u>		Split Sample: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Time: _____		pH: _____	
End: <u>06:00</u>		# of Bottles: <u>2</u> 3 4 5		Date: <u>1/1/22</u>		<input type="checkbox"/> Paper, Lot # _____	
Begin Date: <u>1/1/22</u>		Sample Volume: <u>200</u> ml		TRC _____, Lot #84032C		<input type="checkbox"/> Meter, S/N _____	
End Date: <u>1/18/22</u>		Sample Interval: <u>Flow</u> min.		Temperature _____ °C, S/N _____			

Autosampler Secured/Locked? ☒ Yes ☐ No ☐ NA Sampler (Print): Feng-Chao Kuo

Comments:

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5314452-001	Chloride, Total (EPA 300.0); TDS (Total Dissolved Solids) (SM 2540 C)	NOT NEEDED (R0 01/18/22)	1 L Polyethylene	Cool <6°C	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☐ COH Wastewater Lab ☒ City Contract Lab: A&B

Seals Intact: ☐ Yes ☐ No 568 IR Thermometer S/N # 27910254 ☐ S/N # 29650075 Temp 16.5 °C Initial J

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: Feng-Chao Kuo Date: 1/18/22 Time: 10:36

Received By: [Signature] Date: 01/18/22 Time: 10:36

Relinquished By: [Signature] Date: 01/21/22 Time: 14:09

Received By: [Signature] Date: 1/21/22 Time: 14:09

Relinquished By: [Signature] Received By: Theresa Date: 1/21/22 Time: 16:10

* Delivered to Lab if Box is Checked

Job ID:22012010



01/21/2022 City of Houston - Public W CIt

**LABORATORY TEST RESULTS**

Date 2/2/2022

Job ID : 22012010

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5314452

Job Sample ID: 22012010.01

Date Collected: 01/18/22

Sample Matrix Water

Time Collected: 06:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	ML	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions									
	Chloride	99.14	mg/L	20.00	0.400	2			01/21/22 18:08	RR



June 03, 2022

Report # 073324

Revision # 0

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 4/26/2022.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Maloney
Environmental Investigator V



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 07/07/2022 11:49

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 07/07/2022 11:49

Samples in this Report

Lab ID	Sample	Alias	Matrix	Date Sampled	Date Received
22D1070-01	EFF_Bio.WW	Effluent Biomonitoring sample	Water	04/26/2022 06:00	04/26/2022 10:50



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 07/07/2022 11:49

Sample Results

Sample: EFF_Bio.WW Effluent Biomonitoring sample
22D1070-01 (Water)

Date Collected: 4/26/2022 6:00
Date Received: 4/26/2022 10:50

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	630		5.0	5.0	mg/L	04/27/2022 13:30	04/28/2022 14:22	VP	SM 2540 C
Chloride	113		2.32	8.00	mg/L	05/20/2022 16:05	05/20/2022 16:05	BDG	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 07/07/2022 11:49

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B22D383 - SM 2540 C, E										
Blank (B22D383-BLK1)					Prepared: 04/27/22 13:30 Analyzed: 04/28/22 14:22					
Total Dissolved Solids	ND		5.0	mg/L						
LCS (B22D383-BS1)					Prepared: 04/27/22 13:30 Analyzed: 04/28/22 14:22					
Total Dissolved Solids	158			mg/L	150		105	85-115		
Duplicate (B22D383-DUP1)					Prepared: 04/27/22 13:30 Analyzed: 04/28/22 14:22					
Total Dissolved Solids	618		5.0	mg/L		630			1.92	10
Batch: B22E410 - EPA 300.0										
Blank (B22E410-BLK1)					Prepared: 05/20/22 13:02 Analyzed: 05/20/22 13:02					
Chloride	ND		0.400	mg/L						
LCS (B22E410-BS1)					Prepared: 05/20/22 13:17 Analyzed: 05/20/22 13:17					
Chloride	7.36			mg/L	7.50		98.1	90-110		
Matrix Spike (B22E410-MS1)					Prepared: 05/20/22 16:21 Analyzed: 05/20/22 16:21					
Chloride	271			mg/L	150	112	106	80-120		
Matrix Spike (B22E410-MS2)					Prepared: 05/20/22 15:35 Analyzed: 05/20/22 15:35					
Chloride	150 E		0.404	mg/L				80-120		
Matrix Spike (B22E410-MS3)					Prepared: 05/20/22 18:38 Analyzed: 05/20/22 18:38					
Chloride	48.2		4.03	mg/L		45.0		80-120		
Matrix Spike Dup (B22E410-MSD1)					Prepared: 05/20/22 16:36 Analyzed: 05/20/22 16:36					
Chloride	272			mg/L	150	112	107	80-120	0.166	15



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 07/07/2022 11:49

Quality Control (Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B22E410 - EPA 300.0 (Continued)

Matrix Spike Dup (B22E410-MSD2) Source: 22E0767-02

Prepared: 05/20/22 15:50 Analyzed: 05/20/22 15:50

Chloride	150 E		0.404	mg/L				80-120	0.298	15
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Matrix Spike Dup (B22E410-MSD3) Source: 22E0476-01

Prepared: 05/20/22 18:53 Analyzed: 05/20/22 18:53

Chloride	48.2		4.03	mg/L		45.0		80-120	0.0397	15
----------	------	--	------	------	--	------	--	--------	--------	----



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 07/07/2022 11:49

Notes and Definitions

Item	Definition
E	The reported result is above the calibration range for this analysis. Results should be considered ESTIMATED.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	WS Sample
<input type="checkbox"/> Permit Requirement	<input type="checkbox"/> Special Report
<input type="checkbox"/> Other	

22D1070



for my

Composite Info			
Sample ID:	22D1070-01	Yes	No
Split Samples:	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5
Number of bottles:	1000 mL	mL	
Sample Volume:	min	min	
Sample Interval:	Yes	No	N/A
Autosampler secured/locked:	4.2		
Comp Temp(°C)			

Field Test Traceability ID:	
Temperature ID:	
pH Measured By:	Paper
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

No Discharge
Insufficient Quantity
Company Closed
Equipment Failure
r (write in description)

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
22D1070-01	1	C	W	EFF_Bio.WW	4/26/2022 10:50 AM	4/26/2022 10:50 AM	(1) 1 L PE Cool -6°C	TDS 2540 C Chloride 300.0		

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>[Signature]</i>	4/26/2022 10:50 AM	COH	<i>[Signature]</i>	4/26/22-1050	COH
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location



August 10, 2022

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 7/18/2022.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
08/10/2022 07:54

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
08/10/2022 07:54

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
22G0838-01	EFF_Bio.WW	Water	07/18/2022 06:00	07/18/2022 11:20



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
08/10/2022 07:54

Sample Results

Sample: EFF_Bio.WW
22G0838-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	662		5.0	5.0	mg/L	07/19/2022 13:00	07/20/2022 14:00	VP	SM 2540 C
Chloride	138		2.32	8.00	mg/L	07/21/2022 13:31	07/21/2022 13:31	BG	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
08/10/2022 07:54

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B22G267 - SM 2540 C, E										
Blank (B22G267-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L	Prepared: 07/19/22 13:00	Analyzed: 07/20/22 14:00				
LCS (B22G267-BS1)										
Total Dissolved Solids	146			mg/L	150		97.3	85-115		
Duplicate (B22G267-DUP1)										
Total Dissolved Solids	742		5.0	mg/L		734			1.08	10
Source: 22G0578-04										
Batch: B22G314 - EPA 300.0										
Blank (B22G314-BLK1)										
Chloride	ND		0.400	mg/L	Prepared: 07/21/22 13:01	Analyzed: 07/21/22 13:01				
LCS (B22G314-BS1)										
Chloride	7.43			mg/L	7.50		99.1	90-110		
Matrix Spike (B22G314-MS1)										
Chloride	298		8.42	mg/L	158	138	101	80-120		
Matrix Spike Dup (B22G314-MSD1)										
Chloride	302		8.42	mg/L	158	138	103	80-120	1.05	15
Source: 22G0838-01										



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
08/10/2022 07:54

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
08/10/2022 07:54

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos':. QueryName = SR_SampleAnalysisList



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	Feng-Chao Kuo
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	<input type="checkbox"/> Compliance Verification <input type="checkbox"/> POTW Permit Application
Westway Pollutants	

22G0838



Composite Info	
Sample ID:	22G0838-01
Split Samples:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Number of bottles:	0 1 2 3 4 5 <u> </u>
Sample Volume:	200 mL
Sample Interval:	Flow min
Autosampler secured/locked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comp Temp(°C)	

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inp Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
22G0838-01	1	C	W	EFF_Bio.WW	7/17/22 0600	7/18/22 0600	(1) 1 L PE Cool <6°C	TDS 2540 C Chloride 300.0	N/A	

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
Feng-Chao Kuo	7/18/22 1120		Shane Hilt	7/18/22 1120	COH
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location



November 08, 2022

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 10/10/2022.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
22J0301-01	EFF_Bio.WW	Water	10/10/2022 06:00	10/10/2022 10:35



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

Sample Results

Sample: EFF_Bio.WW
22J0301-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	691		5.0	5.0	mg/L	10/13/2022 10:06	10/14/2022 14:46	KEN	SM 2540 C



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

Sample Results (Continued)

Sample: EFF_Bio.WW
22J0301-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chloride (Reshot)	151		1.16	4.00	mg/L	10/14/2022 10:47	10/14/2022 10:47	VP	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B22J170 - SM 2540 C										
Blank (B22J170-BLK1)			Prepared: 10/13/22 10:06 Analyzed: 10/14/22 14:46							
Total Dissolved Solids	ND		5.0	mg/L						
LCS (B22J170-BS1)			Prepared: 10/13/22 10:06 Analyzed: 10/14/22 14:46							
Total Dissolved Solids	148			mg/L	150		98.7	85-115		
Duplicate (B22J170-DUP1)			Source: 22J0301-01		Prepared: 10/13/22 10:06 Analyzed: 10/14/22 14:46					
Total Dissolved Solids	692		5.0	mg/L		691			0.145	10
Batch: B22J202 - EPA 300.0										
Blank (B22J202-BLK1)			Prepared: 10/14/22 09:44 Analyzed: 10/14/22 09:44							
Chloride	ND		0.400	mg/L						
LCS (B22J202-BS1)			Prepared: 10/14/22 09:59 Analyzed: 10/14/22 09:59							
Chloride	7.50			mg/L	7.50		100	90-110		
Matrix Spike (B22J202-MS1)			Source: 22J0518-02R		Prepared: 10/14/22 13:15 Analyzed: 10/14/22 13:15					
Chloride	197		4.21	mg/L	78.9	115	104	80-120		
Matrix Spike Dup (B22J202-MSD1)			Source: 22J0518-02R		Prepared: 10/14/22 13:30 Analyzed: 10/14/22 13:30					
Chloride	196		4.21	mg/L	78.9	115	103	80-120	0.150	15



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
11/08/2022 15:11

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos'.: QueryName = SR_SampleAnalysisList



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	<i>Feng-Chao Kuo</i>
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
Westway Pollutants	

22J0301



Composite Info			
Sample ID:	22J0301-01	Yes	No
Split Samples:		1	2 3 4 5
Number of bottles:	200 mL		mL
Sample Volume:	200 mL		min
Sample Interval:	Flow/min		
Autosampler secured/locked:	Yes	No	N/A
Comp Temp(°C)			

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Int Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
22J0301-01	1	C	W	EFF_Bio.WW	10/9/22 0600	10/10/22 0600	(1) 1 L PE Cool <6°C	TDS 2540 C Chloride 300.0	N/A	

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>Feng-Chao Kuo</i>	10/10/22 - 1035		<i>A. [Signature]</i>	10/10/22 - 1035	WCH
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location



May 11, 2023

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 1/17/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23A0552-01	EFF_Bio.WW	Water	01/17/2023 06:00	01/17/2023 11:00



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Sample Results

Sample: EFF_Bio.WW
23A0552-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	612		5.0	5.0	mg/L	01/18/2023 13:45	01/19/2023 09:38	KEN	SM 2540 C



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Sample Results (Continued)

Sample: EFF_Bio.WW
23A0552-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chloride (Reshot)	116		2.32	8.00	mg/L	02/10/2023 13:40	02/10/2023 13:40	VP	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23A280 - SM 2540 C										
Blank (B23A280-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L						
					Prepared: 01/18/23 13:45 Analyzed: 01/19/23 09:38					
LCS (B23A280-BS1)										
Total Dissolved Solids	148			mg/L	150		98.7	85-115		
					Prepared: 01/18/23 13:45 Analyzed: 01/19/23 09:38					
Duplicate (B23A280-DUP1)	Source: 23A0552-01									
Total Dissolved Solids	614		5.0	mg/L		612			0.326	10
Batch: B23B160 - EPA 300.0										
Blank (B23B160-BLK1)										
Chloride	ND		0.400	mg/L						
					Prepared: 02/10/23 12:40 Analyzed: 02/10/23 12:40					
LCS (B23B160-BS1)										
Chloride	7.45			mg/L	7.50		99.4	90-110		
					Prepared: 02/10/23 12:55 Analyzed: 02/10/23 12:55					
Matrix Spike (B23B160-MS1)	Source: 23A0552-01R									
Chloride	274		8.42	mg/L	158	116	100	80-120		
					Prepared: 02/10/23 13:56 Analyzed: 02/10/23 13:56					
Matrix Spike Dup (B23B160-MSD1)	Source: 23A0552-01R									
Chloride	275		8.42	mg/L	158	116	101	80-120	0.322	15
					Prepared: 02/10/23 14:11 Analyzed: 02/10/23 14:11					



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos'.: QueryName = SR_SampleAnalysisList



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	Jenny Chao Kuo
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	<input type="checkbox"/> Compliance Verification <input type="checkbox"/> POTW Permit Application

23A0552



Composite Info			
Sample ID:	23A0552-01	Yes	No
Split Samples:	(1) 2 3 4 5	1	2 3 4 5
Number of bottles:	200 mL		mL
Sample Volume:	100 min		min
Sample Interval:	Yes	No	N/A
Autosampler secured/locked:	Yes	No	N/A
Comp Temp(°C)			

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23A0552-01	1	C	W	EFF_Bio_WW 0600 (24)	1/16/23 0600	1/17/23 0600	(1) 1 L PE Cool <6°C	TDS 2540 C Chloride 300.0	N/A	

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
Jenny Chao Kuo	1/17/23 - 1100		Ag...	1/17/23 - 1100	LOH
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location



May 11, 2023

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 3/27/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23C0938-01	EFF_Bio.WW	Water	03/27/2023 06:00	03/27/2023 11:50



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

Sample Results

Sample: EFF_Bio.WW
23C0938-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	615		5.0	5.0	mg/L	03/28/2023 11:15	03/29/2023 14:10	VP	SM 2540 C



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

Sample Results (Continued)

Sample: EFF_Bio.WW
23C0938-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chloride (Reshot)	125		1.16	4.00	mg/L	04/21/2023 09:00	04/21/2023 16:33	KEN	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23C378 - SM 2540 C										
Blank (B23C378-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L						
					Prepared: 03/28/23 11:15 Analyzed: 03/29/23 14:10					
LCS (B23C378-BS1)										
Total Dissolved Solids	148			mg/L	150		98.7	85-115		
Duplicate (B23C378-DUP1)										
Total Dissolved Solids	617	Source: 23C0938-01	5.0	mg/L		615			0.325	10
Batch: B23D309 - EPA 300.0										
Blank (B23D309-BLK1)										
Chloride	ND		0.400	mg/L						
					Prepared: 04/21/23 09:00 Analyzed: 04/21/23 12:43					
LCS (B23D309-BS1)										
Chloride	7.49		0.400	mg/L	7.50		99.9	90-110		
Matrix Spike (B23D309-MS2)										
Chloride	160	Source: 23D0838-01R	4.21	mg/L	78.9	78.5	104	80-120		
Matrix Spike (B23D309-MS4)										
Chloride	154	Source: 23D0847-01R	4.21	mg/L	78.9	70.9	106	80-120		
Matrix Spike Dup (B23D309-MSD2)										
Chloride	161	Source: 23D0838-01R	4.21	mg/L	78.9	78.5	104	80-120	0.308	15
Matrix Spike Dup (B23D309-MSD4)										
Chloride	154	Source: 23D0847-01R	4.21	mg/L	78.9	70.9	105	80-120	0.239	15
					Prepared: 04/21/23 20:07 Analyzed: 04/21/23 20:07					



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:30

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos':. QueryName = SR_SampleAnalysisList

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	Feng-Chao Kuo
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	<input type="checkbox"/> Compliance Verification <input type="checkbox"/> POTW Permit Application
Westway Pollutants	

23C0938



Composite Info	
Sample ID:	23C0938
Split Samples:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Number of bottles:	12 3 4 5 1 2 3 4 5
Sample Volume:	200 mL
Sample Interval:	170 min
Autosampler secured/locked:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Comp Temp(°C)	5.8

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Int Sampler temp(°C)	

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23C0938-01	2	CMan	W	Sample 1	3/26/23 0600	3/27/23 0600	(1) 1 L PE Cool <6°C (1) 1 L PE or Glass Cool <6°C	Chloride 300.0 TDS 2540 C	N/A	

Relinquished by: (Signature)	Feng-Chao Kuo	Date/Time	3/27/23 11:50 am	Location	COH	Received by: (Signature)	Edward Hilde	Date/Time	3/27/23 11:50	Location	COH
Relinquished by: (Signature)		Date/Time		Location		Received by: (Signature)		Date/Time		Location	



May 11, 2023

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 4/18/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
23D0563-01	EFF_Bio.WW	Water	04/18/2023 08:00	04/18/2023 11:40



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Sample Results

Sample: EFF_Bio.WW
23D0563-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Specific conductance at 25°C	964		0.300	1.00	µmhos/cm	04/19/2023 08:00	04/19/2023 08:03	JT	EPA 120.1
Total Dissolved Solids	605		5.0	5.0	mg/L	04/20/2023 15:00	04/21/2023 14:00	VP	SM 2540 C



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Sample Results (Continued)

Sample: EFF_Bio.WW
23D0563-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chloride (Reshot)	127		1.16	4.00	mg/L	04/21/2023 09:00	04/21/2023 16:48	KEN	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23D260 - EPA 120.1										
Blank (B23D260-BLK1)					Prepared: 04/19/23 08:00	Analyzed: 04/19/23 08:03				
Specific conductance at 25°C	0.554		1.00	µmhos/cm						
Duplicate (B23D260-DUP1)	Source: 23D0563-01				Prepared: 04/19/23 08:00	Analyzed: 04/19/23 08:03				
Specific conductance at 25°C	968		1.00	µmhos/cm		964			0.373	10
Reference (B23D260-SRM1)					Prepared: 04/19/23 08:00	Analyzed: 04/19/23 08:03				
Specific conductance at 25°C	83.4			µmhos/cm	84.0		99.3	90-110		
Reference (B23D260-SRM2)					Prepared: 04/19/23 08:00	Analyzed: 04/19/23 08:03				
Specific conductance at 25°C	1410			µmhos/cm	1410		99.9	90-110		
Batch: B23D269 - SM 2540 C										
Blank (B23D269-BLK1)					Prepared: 04/20/23 15:00	Analyzed: 04/21/23 14:00				
Total Dissolved Solids	ND		5.0	mg/L						
LCS (B23D269-BS1)					Prepared: 04/20/23 15:00	Analyzed: 04/21/23 14:00				
Total Dissolved Solids	152			mg/L	150		101	85-115		
Duplicate (B23D269-DUP1)	Source: 23D0563-01				Prepared: 04/20/23 15:00	Analyzed: 04/21/23 14:00				
Total Dissolved Solids	598		5.0	mg/L		605			1.16	10
Batch: B23D309 - EPA 300.0										
Blank (B23D309-BLK1)					Prepared: 04/21/23 09:00	Analyzed: 04/21/23 12:43				
Chloride	ND		0.400	mg/L						



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Quality Control (Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23D309 - EPA 300.0 (Continued)										
LCS (B23D309-BS1)										
Chloride	7.49		0.400	mg/L	7.50		99.9	90-110		
Matrix Spike (B23D309-MS2)										
Chloride	160		4.21	mg/L	78.9	78.5	104	80-120		
Matrix Spike (B23D309-MS4)										
Chloride	154		4.21	mg/L	78.9	70.9	106	80-120		
Matrix Spike Dup (B23D309-MSD2)										
Chloride	161		4.21	mg/L	78.9	78.5	104	80-120	0.308	15
Matrix Spike Dup (B23D309-MSD4)										
Chloride	154		4.21	mg/L	78.9	70.9	105	80-120	0.239	15



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported:
05/11/2023 09:31

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			-2147217865 - Invalid object name 'COASampleListWRowNos'.: QueryName = SR_SampleAnalysisList

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	<i>Barney Threlk</i>
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	

Westway Pollutants

Composite Info			
Sample ID:	23D0563-01	Yes	No
Split Samples:	1 2 3 4 5	1 2 3 4 5	
Number of bottles:	800 mL	mL	
Sample Volume:	800 mL	min	
Sample Interval:	15 min	Yes	No
Autosampler secured/locked:	Yes	No	N/A
Comp Temp(°C)	5.8	Yes	No

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23D0563-01	1	C	W	EFF_Bio.WW	8:00 04/17/23	8:00 04/18/23	(1) 1 L PE Cool <6°C	TDS 2540 C Chloride 300.0		

04/18/23

Relinquished by: (Signature)	<i>[Signature]</i>	Date/Time	04/18/23 1140	Location		Received by: (Signature)	<i>[Signature]</i>	Date/Time	04/18/23 1140	Location	co H
Relinquished by: (Signature)		Date/Time		Location		Received by: (Signature)		Date/Time		Location	



October 03, 2023

Report # 131003

Revision # 0

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site:

Enclosed are the results of analyses for samples received by the laboratory on 9/18/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:37

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:37

Samples in this Report

Lab ID	Sample	Alias	Matrix	Date Sampled	Date Received
23I0850-01	EFF_Bio.WW	Effluent Biomonitoring sample	Water	09/18/2023 06:00	09/18/2023 10:00



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:37

Sample Results

Sample: EFF_Bio.WW Effluent Biomonitoring sample
23I0850-01 (Water)

Date Collected: 9/18/2023 6:00
Date Received: 9/18/2023 10:00

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
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Wet Chemistry

Total Dissolved Solids	666		5.0	5.0	mg/L	09/19/2023 11:20	09/21/2023 10:06	VP	SM 2540 C
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Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:37

Sample Results

(Continued)

Sample: EFF_Bio.WW Effluent Biomonitoring sample
23I0850-01 (Water)

Date Collected: 9/18/2023 6:00
Date Received: 9/18/2023 10:00

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst	
								Initials	Method
Wet Chemistry									
Chloride (Reshot)	121		1.16	4.00	mg/L	09/22/2023 10:48	09/22/2023 10:48	VP	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:37

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23I245 - SM 2540 C										
Blank (B23I245-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L						
					Prepared: 09/19/23 11:20		Analyzed: 09/21/23 10:06			
LCS (B23I245-BS1)										
Total Dissolved Solids	146			mg/L	150		97.3	85-115		
					Prepared: 09/19/23 11:20		Analyzed: 09/21/23 10:06			
Duplicate (B23I245-DUP1)										
Total Dissolved Solids	660		5.0	mg/L		666			0.905	10
Source: 23I0850-01										
Batch: B23I312 - EPA 300.0										
Blank (B23I312-BLK1)										
Chloride	ND		0.400	mg/L						
					Prepared: 09/22/23 09:44		Analyzed: 09/22/23 09:44			
LCS (B23I312-BS1)										
Chloride	7.41			mg/L	7.50		98.8	90-110		
					Prepared: 09/22/23 09:59		Analyzed: 09/22/23 09:59			
Matrix Spike (B23I312-MS1)										
Chloride	201		4.21	mg/L	78.9	121	101	80-120		
					Prepared: 09/22/23 11:34		Analyzed: 09/22/23 11:34			
Matrix Spike Dup (B23I312-MSD1)										
Chloride	200		4.21	mg/L	78.9	121	101	80-120	0.126	15
					Prepared: 09/22/23 11:49		Analyzed: 09/22/23 11:49			
Source: 23I0850-01R										



Westway
10273 Genard Rd
Houston, TX 77041

Project: Westway Pollutants
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:37

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit

Company Name: Westway Pollutant Monitoring

Address: 10273 Genard Rd
Houston, TX 77041

Permit Number: 10495-139



Sampler:	<i>Feng-Chao Kuo</i>
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
Westway Pollutants	

23I0850



Composite Info	
Sample ID:	23I0850-01
Split Samples:	Yes <u>No</u>
Number of bottles:	1 <u>2</u> 3 4 5
Sample Volume:	200 mL
Sample Interval:	Flow/min
Autosampler secured/locked:	Yes No N/A
Comp Temp(°C)	

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23I0850-01	2	C	W	EFF_Bio.WW <i>0600</i>	9/17/23 0600	9/18/23 0600	(2) 1 L PE Cool <6°C	TDS 2540 C Chloride 300.0	N/A	

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>Feng-Chao Kuo</i>	9/18/23 - 1000		<i>A. D.</i>	9/18/23 - 1000	W44
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location



January 09, 2024

Report # 144934

Revision # 0

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site: Westway Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 12/4/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 02/28/2024 07:56

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 02/28/2024 07:56

Samples in this Report

Lab ID	Sample	Alias	Matrix	Date Sampled	Date Received
23L0280-01	EFF_Bio.WW	Effluent Biomonitoring sample	Water	12/04/2023 06:00	12/04/2023 10:36



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 02/28/2024 07:56

Sample Results

Sample: EFF_Bio.WW Effluent Biomonitoring sample
23L0280-01 (Water)

Date Collected: 12/4/2023 6:00
Date Received: 12/4/2023 10:36

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Total Dissolved Solids	699		5.0	5.0	mg/L	12/04/2023 13:15	12/06/2023 11:35	VP	SM 2540 C
Chloride	129		2.32	8.00	mg/L	12/06/2023 11:14	12/06/2023 11:14	VP	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 02/28/2024 07:56

Quality Control

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23L034 - SM 2540 C										
Blank (B23L034-BLK1)			Prepared: 12/04/23 13:15 Analyzed: 12/06/23 11:35							
Total Dissolved Solids	ND		5.0	mg/L						
LCS (B23L034-BS1)			Prepared: 12/04/23 13:15 Analyzed: 12/06/23 11:35							
Total Dissolved Solids	145			mg/L	150		96.7	85-115		
Duplicate (B23L034-DUP1)			Source: 23L0280-01		Prepared: 12/04/23 13:15 Analyzed: 12/06/23 11:35					
Total Dissolved Solids	702		5.0	mg/L		699			0.428	10
Batch: B23L066 - EPA 300.0										
Blank (B23L066-BLK1)			Prepared: 12/06/23 10:43 Analyzed: 12/06/23 10:43							
Chloride	ND		0.400	mg/L						
LCS (B23L066-BS1)			Prepared: 12/06/23 10:58 Analyzed: 12/06/23 10:58							
Chloride	7.41			mg/L	7.50		98.8	90-110		
Matrix Spike (B23L066-MS1)			Source: 23L0280-01		Prepared: 12/06/23 12:36 Analyzed: 12/06/23 12:36					
Chloride	289		8.42	mg/L	158	129	101	80-120		
Matrix Spike Dup (B23L066-MSD1)			Source: 23L0280-01		Prepared: 12/06/23 13:06 Analyzed: 12/06/23 13:06					
Chloride	289		8.42	mg/L	158	129	101	80-120	0.0583	15



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 02/28/2024 07:56

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit



Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139

Sampler:	Feng-Chao Kuo
IWS Sample Reason	
<input checked="" type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
WW Bio	

23L0280



Composite Info			
Sample ID:	23L0280-01		
Split Samples:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes	No
Number of bottles:	12 3 4 5	1	2 3 4 5
Sample Volume:	800 mL	mL	
Sample Interval:	Flow min	min	
Autosampler secured/locked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A	Yes	No N/A
Comp Temp(°C)	5.3		

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23L0280-01	1	C	W	EFF_Bio_WW	12/3/23 0600	12/4/23 0600	(1) 1 L PE Cool <8°C	TDS 2540 C Chloride 300.0	N/A	

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
Feng-Chao Kuo	12/4/23 - 1034		A.F.	12/4/23 - 1034	W/H
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location

Attachment 8

Laboratory Test Reports and COCs

Domestic Technical Report 1.0, Section 7, Table 1.0(2)

Domestic Worksheet 4.0, Section 1

Domestic Worksheet 4.0, Section 2



December 11, 2023

Report # 141745

Revision # 0

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site: Westway Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 11/16/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 05:59

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 05:59

Samples in this Report

Lab ID	Sample	Alias	Matrix	Date Sampled	Date Received
23K0698-01	SP 2_Grab	Effluent Biomonitoring sample	Water	11/16/2023 07:12	11/16/2023 08:56



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 05:59

Sample Results

**Sample: SP 2_Grab Effluent Biomonitoring sample
23K0698-01 (Water)**

Date Collected: 11/16/2023 7:12
Date Received: 11/16/2023 8:56

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chlorine, total residual	ND		0.100	0.100	mg/L	11/16/2023 07:12	11/16/2023 07:12	JF	SM 4500-Cl D
Microbiology									
E.coli	1		1		1 MPN/10 0mL	11/16/2023 10:30	11/17/2023 11:46	SMS	Colilert
Field									
Temperature, Celsius	26.1		0.00	0.100	°C	11/16/2023 07:12	11/16/2023 07:12	JF	EPA 170.1
Oxygen, dissolved	7.20		1.00	1.00	mg/L	11/16/2023 07:12	11/16/2023 07:12	JF	SM 4500-O G
pH	7.50		0.0100	2.00	SU	11/16/2023 07:12	11/16/2023 07:12	JF	SM 4500-H+ B



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 05:59

Quality Control

Microbiology

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K261 - Colilert										
Blank (B23K261-BLK1)										
E.coli	ND					Prepared: 11/17/23 09:54 Analyzed: 11/17/23 11:46 1 MPN/100mL				
Duplicate (B23K261-DUP1)										
E.coli	ND					Prepared: 11/17/23 09:54 Analyzed: 11/17/23 11:46 1 MPN/100mL ND				50
Duplicate (B23K261-DUP2)										
E.coli	ND					Prepared: 11/17/23 09:54 Analyzed: 11/17/23 11:46 1 MPN/100mL ND				50



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 05:59

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	<i>Edmund Fitch</i>
IWS Sample Reason	
<input type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input checked="" type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
WW Full Scan + Permit	

23K0698



Composite Info	
Sample ID:	23K0698-01
Split Samples:	Yes No
Number of bottles:	1 2 3 4 5
Sample Volume:	mL
Sample Interval:	min
Autosampler secured/locked:	Yes No N/A
Comp Temp(°C)	

Field Test Traceability Info	
TRC ID:	08/20/16563
Temperature ID:	12157289
pH Measured By:	Paper Meter
pH ID:	131177002
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0698-01	1	C	W	SP 2_Grab	7:12 11/16/23		(1) 290 mL Sterile Plastic, 0.008% Na2S2O3 Cool <10°C, 0.008% Na2S2O3	Total Coliform and E.coli by Colliert	DO (mg/L) 7.2 pH 7.5 Temp (°C) 26.1 TRC (mg/L) 0.07	0.0 h 6:22 SP 11/16/23

Relinquished by: (Signature)	11/16/23 08:56	Received by: (Signature)	11/16/23 08:56	Date/Time	Location
Relinquished by: (Signature)		Edmund Fitch			Colt
Relinquished by: (Signature)					Location



December 11, 2023

Report # 141745

Revision # 0

ANALYTICAL REPORT

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

Regulatory Compliance

Westway
10273 Genard Rd
Houston, TX 77041

Project Site: Westway Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 11/17/2023.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm
Division Manager



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

PDFFileStart [TOCPAGEMARKER] PDFFileEnd



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Samples in this Report

Lab ID	Sample	Alias	Matrix	Date Sampled	Date Received
23K0699-01	SP 2_CompMan	Westway Effluent	Water	11/16/2023 22:59	11/17/2023 11:15
23K0699-02	SP 2_Comp	Westway Effluent	Water	11/17/2023 08:00	11/17/2023 11:15
23K0699-03	Field Blank	Field Blank WW	Water	11/16/2023 12:11	11/17/2023 11:15



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results

Sample: SP 2_CompMan Westway Effluent
23K0699-01 (Water)

Date Collected: 11/16/2023 22:59
Date Received: 11/17/2023 11:15

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals									
Mercury	0.438 J		0.0928	0.500	ng/L	11/29/2023 11:08	11/30/2023 13:22	KEN	EPA 1631E
Volatile Organics									
1,1,1-Trichloroethane	ND		1.03	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,1,2,2-Tetrachloroethane	ND		0.502	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,1,2-Trichloroethane	ND		0.471	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,1-Dichloroethane	ND		0.919	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,1-Dichloroethene	ND		0.745	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,2-Dibromoethane	ND		0.621	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,2-Dichlorobenzene	ND		1.23	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,2-Dichloroethane	ND		0.803	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,2-Dichloropropane	ND		0.513	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,3-Dichlorobenzene	ND		1.28	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,4-Dichlorobenzene	ND		1.21	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
2-Butanone	ND		2.56	10.0	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
2-Chloroethyl vinyl ether	ND		0.704	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Acrolein	ND		1.29	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Acrylonitrile	ND		1.96	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Benzene	ND		0.591	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Bromodichloromethane	16.6		0.336	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Bromoform	ND		0.416	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Bromomethane	ND		1.09	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Carbon Disulfide	ND		1.16	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Carbon Tetrachloride	ND		0.785	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Chlorobenzene	ND		0.782	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Chloroethane	ND		0.583	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Chloroform	67.2		0.727	4.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
chloromethane	ND		1.38	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
cis-1,2-Dichloroethene	ND		0.562	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
cis-1,3-Dichloropropene	ND		0.728	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Dibromochloromethane	2.72 J		0.504	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Epichlorohydrin	ND		4.78	25.0	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Ethylbenzene	ND		0.807	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
m+p-Xylene	ND		1.68	10.0	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Methylene Chloride	ND		2.14	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Methyl-tert-butyl ether (MTBE)	ND		0.428	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
o-Xylene	ND		1.00	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Styrene	ND		0.793	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Tetrachloroethene	ND		0.920	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Toluene	ND		0.737	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results (Continued)

**Sample: SP 2_CompMan (Continued)Westway Effluent
23K0699-01 (Water)**

**Date Collected: 11/16/2023 22:59
Date Received: 11/17/2023 11:15**

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Volatile Organics (Continued)									
trans-1,2-Dichloroethene	ND		1.26	4.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
trans-1,3-Dichloropropene	ND		1.16	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Trichloroethene	ND		0.432	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Vinyl acetate	ND		0.712	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Vinyl chloride	ND		1.15	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Xylenes, Total	ND		1.00	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Total Trihalomethanes	ND		1.11	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
1,3-Dichloropropene, Total	ND		0.738	5.00	ug/L	11/20/2023 11:32	11/20/2023 11:32	SRB	EPA 624.1
Wet Chemistry									
Cyanide, Amenable	8.67		0.946	2.00	ug/L	11/17/2023 11:50	11/17/2023 14:05	SBL	OIA 1677
Cyanide, Total	10.1		3.14	10.0	ug/L	11/17/2023 11:50	11/17/2023 14:05	SBL	ASTM D7511



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results (Continued)

Sample: SP 2_Comp Westway Effluent
23K0699-02 (Water)

Date Collected: 11/17/2023 8:00
Date Received: 11/17/2023 11:15

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals									
Phosphorous, Total	179 J		19.4	250	ug/L	11/27/2023 08:00	11/28/2023 09:07	VP	EPA 200.7
Semivolatile Organics									
Chlorpyrifos (2)	ND		0.00900	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
Demeton-o (2)	ND		0.0190	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
Demeton-s (2)	ND		0.0160	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
Diazinon (2)	ND		0.0130	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
ethyl-Parathion (2)	ND		0.0120	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
Malathion (2)	ND		0.0120	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
methyl Azinphos (Guthion) (2)	ND		0.0150	0.250	ug/L	11/20/2023 09:39	11/21/2023 15:54	RD	EPA 1657
4,4'-DDD	ND		0.00382	0.0250	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
4,4'-DDE	ND		0.00153	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
4,4'-DDT	ND		0.00509	0.0250	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Aldrin	ND		0.00153	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Alpha-BHC	ND		0.00119	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Beta-BHC	ND		0.00238	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Chlordane	ND		0.0430	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Delta-BHC	ND		0.00168	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Dicofol	ND		0.0117	0.0500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Dieldrin	ND		0.00181	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Endosulfan I	ND		0.00119	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Endosulfan II	ND		0.00336	0.0250	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Endosulfan Sulfate	ND		0.00423	0.0250	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Endrin	ND		0.0131	0.0250	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Endrin-Aldehyde	ND		0.00217	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Gamma-BHC	ND		0.00119	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Heptachlor	ND		0.00217	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Heptachlor epoxide	ND		0.00153	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Methoxychlor	ND		0.00247	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Mirex	ND		0.00153	0.00500	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1016	ND		0.0762	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1221	ND		0.0119	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1232	ND		0.120	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1242	ND		0.116	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1248	ND		0.0934	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1254	ND		0.0732	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
PCB-1260	ND		0.162	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Toxaphene	ND		0.101	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
Polychlorinated biphenyls, Total	ND		0.0732	0.200	ug/L	11/21/2023 08:46	11/22/2023 11:48	SRB	EPA 608.3
1,2,4,5-Tetrachlorobenzene	ND		0.944	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results (Continued)

Sample: SP 2_Comp (Continued) Westway Effluent
23K0699-02 (Water)

Date Collected: 11/17/2023 8:00
Date Received: 11/17/2023 11:15

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Semivolatile Organics (Continued)									
1,2,4-Trichlorobenzene	ND		0.500	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,4,5-Trichlorophenol	ND		1.63	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,4,6-Trichlorophenol	ND		1.15	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,4-Dichlorophenol	ND		1.02	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,4-Dimethylphenol	ND		0.706	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,4-Dinitrophenol	ND		3.11	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,4-Dinitrotoluene	ND		1.36	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2,6-Dinitrotoluene	ND		1.34	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2-Chloronaphthalene	ND		0.959	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2-Chlorophenol	ND		1.05	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2-Methylphenol	ND		1.07	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
2-Nitrophenol	ND		0.706	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
3,3'-Dichlorobenzidine	ND		1.47	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
4,6-Dinitro-2-methylphenol	ND		2.27	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
4-Bromophenyl phenyl ether	ND		0.815	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
4-Chloro-3-methylphenol	ND		1.18	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
4-Chlorophenyl phenyl Ether	ND		1.18	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
4-Methylphenol	ND		1.38	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
4-Nitrophenol	ND		0.968	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Acenaphthene	ND		1.05	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Acenaphthylene	ND		0.871	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Aniline	ND		1.22	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Anthracene	ND		0.856	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Azobenzene	ND		0.977	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Benzidine	ND		1.61	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Benzo(a)pyrene	ND		1.54	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Benzo(b)fluoranthene	ND		1.43	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Benzo(k)Fluoranthene	ND		1.02	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Benzo(g,h,i)perylene	ND		1.13	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Benzo[a]anthracene	ND		1.12	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Bis(2-chloroethoxy) methane	ND		0.831	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Bis(2-chloroethyl) ether	ND		1.08	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Bis(2-chloroisopropyl) ether	ND		0.965	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Bis(2-ethylhexyl) phthalate	ND		2.66	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Butyl benzyl phthalate	ND		1.28	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Carbazole	ND		1.55	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Chrysene	ND		1.30	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Dibenzo(a,h)anthracene	ND		1.32	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Diethyl phthalate	ND		1.28	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Dimethyl phthalate	ND		0.911	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results (Continued)

Sample: SP 2_Comp (Continued)Westway Effluent
23K0699-02 (Water)

Date Collected: 11/17/2023 8:00
Date Received: 11/17/2023 11:15

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Semivolatile Organics (Continued)									
Di-n-butyl phthalate	ND		1.33	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Di-n-octyl phthalate	ND		2.07	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Fluoranthene	ND		1.27	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Fluorene	ND		1.03	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Hexachlorobenzene	ND		0.947	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Hexachlorobutadiene	ND		0.520	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Hexachlorocyclopentadiene	ND		0.740	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Hexachloroethane	ND		0.746	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Indeno(1,2,3-cd)pyrene	ND		1.71	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Isophorone	ND		0.485	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Naphthalene	ND		0.640	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
n-Decane	ND		0.520	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Nitrobenzene	ND		0.759	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
N-Nitosodi-n-butylamine	ND		0.962	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
N-Nitrosodiethylamine	ND		1.06	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
N-Nitrosodimethylamine	ND		0.758	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
N-Nitrosodi-n-propylamine	ND		1.50	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
N-Nitrosodiphenylamine	ND		0.852	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
n-Octadecane	ND		0.887	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Pentachlorobenzene	ND		0.643	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Pentachlorophenol	ND		1.74	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Phenanthrene	ND		0.928	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Phenol	ND		1.06	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Pyrene	ND		1.06	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
Pyridine	ND		0.977	5.00	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1
3-Methylphenol	ND		5.58	10.0	ug/L	11/20/2023 08:41	11/22/2023 11:51	SRB	EPA 625.1

Wet Chemistry

Total Alkalinity as CaCO3	199		20.0	20.0	mg/L	11/20/2023 11:22	11/20/2023 11:22	VP	SM 2320 B
Total Dissolved Solids	657		5.0	5.0	mg/L	11/20/2023 12:30	11/21/2023 14:00	VP	SM 2540 C
Total Suspended Solids	3.4		2.0	2.0	mg/L	11/17/2023 11:02	11/17/2023 13:40	AYL	SM 2540 D
Fluoride	0.310		0.0310	0.0500	mg/L	11/17/2023 12:49	11/17/2023 12:49	VP	EPA 300.0
Nitrate as N	8.32		0.00700	0.100	mg/L	11/17/2023 12:49	11/17/2023 12:49	VP	EPA 300.0
Ammonia as N	0.106		0.0204	0.0500	mg/L	11/20/2023 15:40	11/20/2023 15:40	BVC	EPA 350.1
Total Kjeldahl Nitrogen	1.70		0.209	0.500	mg/L	11/20/2023 10:00	11/22/2023 07:45	VP	SM 4500-NH3 D
Biochemical Oxygen Demand, Carbonaceous	7.30		0.200	2.16	mg/L	11/17/2023 11:37	11/22/2023 09:20	CML	SM 5210 B



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results (Continued)

**Sample: SP 2_Comp Westway Effluent
23K0699-02 (Water)**

**Date Collected: 11/17/2023 8:00
Date Received: 11/17/2023 11:15**

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chloride (Reshot)	126		1.16	4.00	mg/L	11/17/2023 14:06	11/17/2023 14:06	VP	EPA 300.0
Sulfate (Reshot)	74.7		1.77	4.00	mg/L	11/17/2023 14:06	11/17/2023 14:06	VP	EPA 300.0



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Sample Results (Continued)

**Sample: Field Blank Field Blank WW
23K0699-03 (Water)**

**Date Collected: 11/16/2023 12:11
Date Received: 11/17/2023 11:15**

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals									
Mercury	ND		0.0928	0.500	ng/L	11/29/2023 11:08	11/30/2023 14:32	KEN	EPA 1631E



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control

Total Metals

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K335 - EPA 200.7										
Blank (B23K335-BLK1)										
Phosphorous, Total	ND		250	ug/L	Prepared: 11/27/23 08:00	Analyzed: 11/28/23 09:04				
LCS (B23K335-BS1)										
Phosphorous, Total	1890		250	ug/L	2000	94.4	85-115			
Duplicate (B23K335-DUP1)										
Phosphorous, Total	179 J		250	ug/L	179	0.0162	20			
Matrix Spike (B23K335-MS1)										
Phosphorous, Total	2260		250	ug/L	2000	179	104	70-130		
Matrix Spike Dup (B23K335-MSD1)										
Phosphorous, Total	2250		250	ug/L	2000	179	104	70-130	0.221	20
Batch: B23K403 - EPA 1631E										
Blank (B23K403-BLK1)										
Mercury	ND		0.500	ng/L	Prepared: 11/29/23 11:08	Analyzed: 11/30/23 12:12				
Blank (B23K403-BLK2)										
Mercury	ND		0.500	ng/L	Prepared: 11/29/23 11:08	Analyzed: 11/30/23 13:42				
Blank (B23K403-BLK3)										
Mercury	ND		0.500	ng/L	Prepared: 11/29/23 11:08	Analyzed: 11/30/23 15:02				
Blank (B23K403-BLK4)										
Mercury	ND		0.500	ng/L	Prepared: 11/29/23 11:08	Analyzed: 11/30/23 14:42				



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Project: WW Bio
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Reported: 01/03/2024 06:05

Quality Control (Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K403 - EPA 1631E (Continued)										
Blank (B23K403-BLK5)					Prepared: 11/29/23 11:08 Analyzed: 11/30/23 14:52					
Mercury	ND		0.500	ng/L						
LCS (B23K403-BS1)					Prepared: 11/29/23 11:08 Analyzed: 11/30/23 12:02					
Mercury	4.98		0.500	ng/L	5.00		99.6	77-123		
LCS (B23K403-BS2)					Prepared: 11/29/23 11:08 Analyzed: 11/30/23 13:32					
Mercury	4.81		0.500	ng/L	5.00		96.3	77-123		
LCS (B23K403-BS3)					Prepared: 11/29/23 11:08 Analyzed: 11/30/23 15:12					
Mercury	4.81		0.500	ng/L	5.00		96.3	77-123		
Matrix Spike (B23K403-MS1)					Prepared: 11/29/23 11:08 Analyzed: 11/30/23 12:42					
Mercury	5.69		0.500	ng/L	5.00	1.03	93.4	71-125		
Matrix Spike Dup (B23K403-MSD1)					Prepared: 11/29/23 11:08 Analyzed: 11/30/23 12:52					
Mercury	5.73		0.500	ng/L	5.00	1.03	94.1	71-125	0.648	24



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Project: WW Bio
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Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K246 - EPA 625.1_SPE

Blank (B23K246-BLK1)

Prepared: 11/20/23 08:41 Analyzed: 11/22/23 09:58

1,2,4,5-Tetrachlorobenzene	ND		5.00	ug/L						
1,2,4-Trichlorobenzene	ND		5.00	ug/L						
2,4,5-Trichlorophenol	ND		5.00	ug/L						
2,4,6-Trichlorophenol	ND		5.00	ug/L						
2,4-Dichlorophenol	ND		5.00	ug/L						
2,4-Dimethylphenol	ND		5.00	ug/L						
2,4-Dinitrophenol	ND		5.00	ug/L						
2,4-Dinitrotoluene	ND		5.00	ug/L						
2,6-Dinitrotoluene	ND		5.00	ug/L						
2-Chloronaphthalene	ND		5.00	ug/L						
2-Chlorophenol	ND		5.00	ug/L						
2-Methylphenol	ND		5.00	ug/L						
2-Nitrophenol	ND		5.00	ug/L						
3,3'-Dichlorobenzidine	ND		5.00	ug/L						
4,6-Dinitro-2-methylphenol	ND		5.00	ug/L						
4-Bromophenyl phenyl ether	ND		5.00	ug/L						
4-Chloro-3-methylphenol	ND		5.00	ug/L						
4-Chlorophenyl phenyl Ether	ND		5.00	ug/L						
4-Methylphenol	ND		5.00	ug/L						
4-Nitrophenol	ND		5.00	ug/L						
Acenaphthene	ND		5.00	ug/L						
Acenaphthylene	ND		5.00	ug/L						
Aniline	ND		5.00	ug/L						
Anthracene	ND		5.00	ug/L						
Azobenzene	ND		5.00	ug/L						
Benzidine	ND		5.00	ug/L						
Benzo(a)pyrene	ND		5.00	ug/L						
Benzo(b)fluoranthene	ND		5.00	ug/L						
Benzo(k)Fluoranthene	ND		5.00	ug/L						
Benzo(g,h,i)perylene	ND		5.00	ug/L						
Benzo[a]anthracene	ND		5.00	ug/L						
Bis(2-chloroethoxy) methane	ND		5.00	ug/L						
Bis(2-chloroethyl) ether	ND		5.00	ug/L						
Bis(2-chloroisopropyl) ether	ND		5.00	ug/L						
Bis(2-ethylhexyl) phthalate	ND		5.00	ug/L						
Butyl benzyl phthalate	ND		5.00	ug/L						
Carbazole	ND		5.00	ug/L						
Chrysene	ND		5.00	ug/L						
Dibenzo(a,h)anthracene	ND		5.00	ug/L						
Diethyl phthalate	ND		5.00	ug/L						
Dimethyl phthalate	ND		5.00	ug/L						
Di-n-butyl phthalate	ND		5.00	ug/L						
Di-n-octyl phthalate	ND		5.00	ug/L						
Fluoranthene	ND		5.00	ug/L						
Fluorene	ND		5.00	ug/L						
Hexachlorobenzene	ND		5.00	ug/L						
Hexachlorobutadiene	ND		5.00	ug/L						



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Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K246 - EPA 625.1_SPE (Continued)

Blank (B23K246-BLK1)

Prepared: 11/20/23 08:41 Analyzed: 11/22/23 09:58

Hexachlorocyclopentadiene	ND		5.00	ug/L						
Hexachloroethane	ND		5.00	ug/L						
Indeno(1,2,3-cd)pyrene	ND		5.00	ug/L						
Isophorone	ND		5.00	ug/L						
Naphthalene	ND		5.00	ug/L						
n-Decane	ND		5.00	ug/L						
Nitrobenzene	ND		5.00	ug/L						
N-Nitosodi-n-butylamine	ND		5.00	ug/L						
N-Nitrosodiethylamine	ND		5.00	ug/L						
N-Nitrosodimethylamine	ND		5.00	ug/L						
N-Nitrosodi-n-propylamine	ND		5.00	ug/L						
N-Nitrosodiphenylamine	ND		5.00	ug/L						
n-Octadecane	ND		5.00	ug/L						
Pentachlorobenzene	ND		5.00	ug/L						
Pentachlorophenol	ND		5.00	ug/L						
Phenanthrene	ND		5.00	ug/L						
Phenol	ND		5.00	ug/L						
Pyrene	ND		5.00	ug/L						
Pyridine	ND		5.00	ug/L						
3-Methylphenol	ND		10.0	ug/L						

LCS (B23K246-BS1)

Prepared: 11/20/23 08:41 Analyzed: 11/22/23 10:27

1,2,4-Trichlorobenzene	24.1		5.00	ug/L	40.0		60.2	44-142		
2,4,5-Trichlorophenol	33.8		5.00	ug/L	40.0		84.5	1-140		
2,4,6-Trichlorophenol	32.7		5.00	ug/L	40.0		81.7	37-144		
2,4-Dichlorophenol	29.4		5.00	ug/L	40.0		73.6	39-135		
2,4-Dimethylphenol	27.7		5.00	ug/L	40.0		69.3	32-120		
2,4-Dinitrophenol	32.5		5.00	ug/L	40.0		81.2	1-191		
2,4-Dinitrotoluene	37.5		5.00	ug/L	40.0		93.7	39-139		
2,6-Dinitrotoluene	35.3		5.00	ug/L	40.0		88.3	50-158		
2-Chloronaphthalene	26.9		5.00	ug/L	40.0		67.1	20-120		
2-Chlorophenol	30.0		5.00	ug/L	40.0		75.1	23-134		
2-Methylphenol	21.0		5.00	ug/L	40.0		52.5	1-140		
2-Nitrophenol	31.6		5.00	ug/L	40.0		79.0	29-182		
3,3'-Dichlorobenzidine	78.4		5.00	ug/L	100		78.4	1-262		
4,6-Dinitro-2-methylphenol	42.1		5.00	ug/L	40.0		105	1-181		
4-Bromophenyl phenyl ether	29.9		5.00	ug/L	40.0		74.6	53-127		
4-Chloro-3-methylphenol	31.9		5.00	ug/L	40.0		79.8	22-147		
4-Chlorophenyl phenyl Ether	27.2		5.00	ug/L	40.0		68.1	25-158		
4-Methylphenol	17.1		5.00	ug/L	20.0		85.5	1-140		
4-Nitrophenol	35.9		5.00	ug/L	40.0		89.8	1-132		
Acenaphthene	28.2		5.00	ug/L	40.0		70.4	47-145		
Acenaphthylene	27.3		5.00	ug/L	40.0		68.3	33-145		
Aniline	22.5		5.00	ug/L	40.0		56.1	1-140		
Anthracene	33.9		5.00	ug/L	40.0		84.6	27-133		
Azobenzene	31.6		5.00	ug/L	40.0		79.1	1-140		
Benzidine	74.8		5.00	ug/L	100		74.8	1-140		



Westway
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Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K246 - EPA 625.1_SPE (Continued)										
LCS (B23K246-BS1)					Prepared: 11/20/23 08:41 Analyzed: 11/22/23 10:27					
Benzo(a)pyrene	23.4		5.00	ug/L	40.0		58.6	17-163		
Benzo(b)fluoranthene	26.8		5.00	ug/L	40.0		67.0	24-159		
Benzo(k)Fluoranthene	25.7		5.00	ug/L	40.0		64.3	11-162		
Benzo(g,h,i)perylene	16.5		5.00	ug/L	40.0		41.4	1-219		
Benzo[a]anthracene	28.2		5.00	ug/L	40.0		70.5	33-143		
Bis(2-chloroethoxy) methane	30.2		5.00	ug/L	40.0		75.6	33-184		
Bis(2-chloroethyl) ether	29.9		5.00	ug/L	40.0		74.8	12-158		
Bis(2-chloroisopropyl) ether	31.1		5.00	ug/L	40.0		77.7	36-166		
Bis(2-ethylhexyl) phthalate	37.7		5.00	ug/L	40.0		94.2	8-158		
Butyl benzyl phthalate	35.2		5.00	ug/L	40.0		88.0	1-152		
Carbazole	35.3		5.00	ug/L	40.0		88.2	1-140		
Chrysene	31.8		5.00	ug/L	40.0		79.5	17-168		
Dibenzo(a,h)anthracene	17.0		5.00	ug/L	40.0		42.4	1-227		
Diethyl phthalate	33.9		5.00	ug/L	40.0		84.7	1-120		
Dimethyl phthalate	32.6		5.00	ug/L	40.0		81.5	1-120		
Di-n-butyl phthalate	35.7		5.00	ug/L	40.0		89.2	1-120		
Di-n-octyl phthalate	35.9		5.00	ug/L	40.0		89.8	4-146		
Fluoranthene	31.8		5.00	ug/L	40.0		79.6	26-137		
Fluorene	28.2		5.00	ug/L	40.0		70.6	59-121		
Hexachlorobenzene	31.7		5.00	ug/L	40.0		79.2	1-152		
Hexachlorobutadiene	17.5		5.00	ug/L	40.0		43.7	24-120		
Hexachlorocyclopentadiene	16.1		5.00	ug/L	40.0		40.2	1-140		
Hexachloroethane	20.9		5.00	ug/L	40.0		52.3	40-120		
Indeno(1,2,3-cd)pyrene	17.8		5.00	ug/L	40.0		44.6	1-171		
Isophorone	28.6		5.00	ug/L	40.0		71.4	21-196		
Naphthalene	28.5		5.00	ug/L	40.0		71.1	21-133		
n-Decane	5.09		5.00	ug/L	40.0		12.7	1-140		
Nitrobenzene	27.5		5.00	ug/L	40.0		68.8	35-140		
N-Nitosodi-n-butylamine	31.6		5.00	ug/L	40.0		79.0	1-140		
N-Nitrosodiethylamine	27.7		5.00	ug/L	40.0		69.2	1-140		
N-Nitrosodimethylamine	13.3		5.00	ug/L	40.0		33.2	1-140		
N-Nitrosodi-n-propylamine	30.7		5.00	ug/L	40.0		76.7	1-230		
N-Nitrosodiphenylamine	33.4		5.00	ug/L	40.0		83.6	1-140		
n-Octadecane	30.5		5.00	ug/L	40.0		76.3	1-140		
Pentachlorobenzene	27.3		5.00	ug/L	40.0		68.2	1-140		
Pentachlorophenol	36.3		5.00	ug/L	40.0		90.7	14-176		
Phenanthrene	33.1		5.00	ug/L	40.0		82.8	54-120		
Phenol	21.1		5.00	ug/L	40.0		52.8	5-120		
Pyrene	31.4		5.00	ug/L	40.0		78.4	52-120		
Pyridine	11.2		5.00	ug/L	40.0		28.0	1-140		
3-Methylphenol	17.1		10.0	ug/L	20.0		85.5	1-140		



Westway
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Project: WW Bio
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Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K246 - EPA 625.1_SPE (Continued)

Matrix Spike (B23K246-MS1)

Source: 23K0699-02

Prepared: 11/20/23 08:41

Analyzed: 11/22/23 12:20

1,2,4-Trichlorobenzene	27.2		5.00	ug/L	40.0	ND	67.9	44-142		
2,4,5-Trichlorophenol	33.3		5.00	ug/L	40.0	ND	83.2	1-140		
2,4,6-Trichlorophenol	34.5		5.00	ug/L	40.0	ND	86.4	37-144		
2,4-Dichlorophenol	31.1		5.00	ug/L	40.0	ND	77.8	39-135		
2,4-Dimethylphenol	28.1		5.00	ug/L	40.0	ND	70.4	32-120		
2,4-Dinitrophenol	38.9		5.00	ug/L	40.0	ND	97.3	1-191		
2,4-Dinitrotoluene	36.0		5.00	ug/L	40.0	ND	89.9	39-139		
2,6-Dinitrotoluene	36.3		5.00	ug/L	40.0	ND	90.8	50-158		
2-Chloronaphthalene	29.7		5.00	ug/L	40.0	ND	74.2	20-120		
2-Chlorophenol	31.6		5.00	ug/L	40.0	ND	79.0	23-134		
2-Methylphenol	28.8		5.00	ug/L	40.0	ND	72.1	1-140		
2-Nitrophenol	34.6		5.00	ug/L	40.0	ND	86.5	29-182		
3,3'-Dichlorobenzidine	43.9		5.00	ug/L	100	ND	43.9	1-262		
4,6-Dinitro-2-methylphenol	47.3		5.00	ug/L	40.0	ND	118	1-181		
4-Bromophenyl phenyl ether	34.1		5.00	ug/L	40.0	ND	85.3	53-127		
4-Chloro-3-methylphenol	31.4		5.00	ug/L	40.0	ND	78.5	22-147		
4-Chlorophenyl phenyl Ether	30.6		5.00	ug/L	40.0	ND	76.5	25-158		
4-Methylphenol	17.6		5.00	ug/L	20.0	ND	87.9	1-140		
4-Nitrophenol	31.3		5.00	ug/L	40.0	ND	78.3	1-132		
Acenaphthene	30.7		5.00	ug/L	40.0	ND	76.7	47-145		
Acenaphthylene	27.6		5.00	ug/L	40.0	ND	69.0	33-145		
Aniline	20.8		5.00	ug/L	40.0	ND	52.1	1-140		
Anthracene	35.3		5.00	ug/L	40.0	ND	88.3	27-133		
Azobenzene	33.2		5.00	ug/L	40.0	ND	82.9	1-140		
Benzidine	ND	MS1	5.00	ug/L	100	ND		1-140		
Benzo(a)pyrene	35.7		5.00	ug/L	40.0	ND	89.3	17-163		
Benzo(b)fluoranthene	35.9		5.00	ug/L	40.0	ND	89.8	24-159		
Benzo(k)Fluoranthene	35.5		5.00	ug/L	40.0	ND	88.8	11-162		
Benzo(g,h,i)perylene	40.3		5.00	ug/L	40.0	ND	101	1-219		
Benzo[a]anthracene	32.4		5.00	ug/L	40.0	ND	80.9	33-143		
Bis(2-chloroethoxy) methane	32.4		5.00	ug/L	40.0	ND	80.9	33-184		
Bis(2-chloroethyl) ether	32.0		5.00	ug/L	40.0	ND	80.1	12-158		
Bis(2-chloroisopropyl) ether	33.0		5.00	ug/L	40.0	ND	82.4	36-166		
Bis(2-ethylhexyl) phthalate	44.8		5.00	ug/L	40.0	ND	112	8-158		
Butyl benzyl phthalate	38.3		5.00	ug/L	40.0	ND	95.9	1-152		
Carbazole	34.4		5.00	ug/L	40.0	ND	85.9	1-140		
Chrysene	35.6		5.00	ug/L	40.0	ND	89.0	17-168		
Dibenzo(a,h)anthracene	40.3		5.00	ug/L	40.0	ND	101	1-227		
Diethyl phthalate	34.8		5.00	ug/L	40.0	ND	86.9	1-120		
Dimethyl phthalate	32.3		5.00	ug/L	40.0	ND	80.7	1-120		
Di-n-butyl phthalate	38.8		5.00	ug/L	40.0	ND	97.0	1-120		
Di-n-octyl phthalate	41.5		5.00	ug/L	40.0	ND	104	4-146		
Fluoranthene	33.2		5.00	ug/L	40.0	ND	83.1	26-137		
Fluorene	31.0		5.00	ug/L	40.0	ND	77.5	59-121		
Hexachlorobenzene	34.4		5.00	ug/L	40.0	ND	86.0	1-152		
Hexachlorobutadiene	24.0		5.00	ug/L	40.0	ND	59.9	24-120		
Hexachlorocyclopentadiene	21.3		5.00	ug/L	40.0	ND	53.2	1-140		



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Project: WW Bio
Project Number: 10495-139
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Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K246 - EPA 625.1_SPE (Continued)

Matrix Spike (B23K246-MS1) **Source: 23K0699-02** Prepared: 11/20/23 08:41 Analyzed: 11/22/23 12:20

Hexachloroethane	24.3		5.00	ug/L	40.0	ND	60.7	40-120		
Indeno(1,2,3-cd)pyrene	44.9		5.00	ug/L	40.0	ND	112	1-171		
Isophorone	31.5		5.00	ug/L	40.0	ND	78.8	21-196		
Naphthalene	30.3		5.00	ug/L	40.0	ND	75.9	21-133		
n-Decane	8.42		5.00	ug/L	40.0	ND	21.1	1-140		
Nitrobenzene	30.6		5.00	ug/L	40.0	ND	76.4	35-180		
N-Nitosodi-n-butylamine	33.2		5.00	ug/L	40.0	ND	83.1	1-140		
N-Nitrosodiethylamine	28.3		5.00	ug/L	40.0	ND	70.8	1-140		
N-Nitrosodimethylamine	14.2		5.00	ug/L	40.0	ND	35.4	1-140		
N-Nitrosodi-n-propylamine	31.4		5.00	ug/L	40.0	ND	78.5	1-230		
N-Nitrosodiphenylamine	35.5		5.00	ug/L	40.0	ND	88.7	1-140		
n-Octadecane	37.4		5.00	ug/L	40.0	ND	93.5	1-140		
Pentachlorobenzene	31.2		5.00	ug/L	40.0	ND	78.0	1-140		
Pentachlorophenol	40.9		5.00	ug/L	40.0	ND	102	14-176		
Phenanthrene	34.4		5.00	ug/L	40.0	ND	85.9	54-120		
Phenol	20.9		5.00	ug/L	40.0	ND	52.4	5-120		
Pyrene	31.9		5.00	ug/L	40.0	ND	79.8	52-120		
Pyridine	10.4		5.00	ug/L	40.0	ND	25.9	1-140		
3-Methylphenol	17.6		10.0	ug/L	20.0	ND	87.9	1-140		

Matrix Spike Dup (B23K246-MSD1) **Source: 23K0699-02** Prepared: 11/20/23 08:41 Analyzed: 11/22/23 12:48

1,2,4-Trichlorobenzene	27.8		5.00	ug/L	40.0	ND	69.6	44-142	2.43	50
2,4,5-Trichlorophenol	32.7		5.00	ug/L	40.0	ND	81.7	1-140	1.72	50
2,4,6-Trichlorophenol	35.2		5.00	ug/L	40.0	ND	88.0	37-144	1.91	58
2,4-Dichlorophenol	31.5		5.00	ug/L	40.0	ND	78.8	39-135	1.29	50
2,4-Dimethylphenol	28.2		5.00	ug/L	40.0	ND	70.5	32-120	0.172	58
2,4-Dinitrophenol	40.9		5.00	ug/L	40.0	ND	102	1-191	4.88	132
2,4-Dinitrotoluene	38.8		5.00	ug/L	40.0	ND	97.0	39-139	7.63	42
2,6-Dinitrotoluene	36.8		5.00	ug/L	40.0	ND	92.0	50-158	1.39	48
2-Chloronaphthalene	30.5		5.00	ug/L	40.0	ND	76.3	20-120	2.77	24
2-Chlorophenol	32.5		5.00	ug/L	40.0	ND	81.2	23-134	2.77	61
2-Methylphenol	30.1		5.00	ug/L	40.0	ND	75.2	1-140	4.26	50
2-Nitrophenol	34.9		5.00	ug/L	40.0	ND	87.2	29-182	0.806	55
3,3'-Dichlorobenzidine	52.1		5.00	ug/L	100	ND	52.1	1-262	17.0	50
4,6-Dinitro-2-methylphenol	50.6		5.00	ug/L	40.0	ND	127	1-181	6.77	203
4-Bromophenyl phenyl ether	36.0		5.00	ug/L	40.0	ND	89.9	53-127	5.25	50
4-Chloro-3-methylphenol	31.8		5.00	ug/L	40.0	ND	79.6	22-147	1.39	73
4-Chlorophenyl phenyl Ether	32.1		5.00	ug/L	40.0	ND	80.3	25-158	4.72	61
4-Methylphenol	18.2		5.00	ug/L	20.0	ND	90.8	1-140	3.15	50
4-Nitrophenol	35.8		5.00	ug/L	40.0	ND	89.4	1-132	13.2	131
Acenaphthene	32.0		5.00	ug/L	40.0	ND	80.1	47-145	4.37	48
Acenaphthylene	28.8		5.00	ug/L	40.0	ND	72.1	33-145	4.40	74
Aniline	21.5		5.00	ug/L	40.0	ND	53.8	1-140	3.27	50
Anthracene	37.5		5.00	ug/L	40.0	ND	93.8	27-133	6.02	50
Azobenzene	35.1		5.00	ug/L	40.0	ND	87.8	1-140	5.77	50
Benzidine	1.63	J	5.00	ug/L	100	ND	1.63	1-140		50
Benzo(a)pyrene	39.9		5.00	ug/L	40.0	ND	99.7	17-163	11.0	72



Westway
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Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K246 - EPA 625.1_SPE (Continued)										
Matrix Spike Dup (B23K246-MSD1) Source: 23K0699-02					Prepared: 11/20/23 08:41		Analyzed: 11/22/23 12:48			
Benzo(b)fluoranthene	38.6		5.00	ug/L	40.0	ND	96.5	24-159	7.26	71
Benzo(k)fluoranthene	37.7		5.00	ug/L	40.0	ND	94.4	11-162	6.12	63
Benzo(g,h,i)perylene	43.5		5.00	ug/L	40.0	ND	109	1-219	7.67	97
Benzo[a]anthracene	35.0		5.00	ug/L	40.0	ND	87.5	33-143	7.83	53
Bis(2-chloroethoxy) methane	32.6		5.00	ug/L	40.0	ND	81.4	33-184	0.578	54
Bis(2-chloroethyl) ether	33.0		5.00	ug/L	40.0	ND	82.5	12-158	2.94	50
Bis(2-chloroisopropyl) ether	33.7		5.00	ug/L	40.0	ND	84.2	36-166	2.15	76
Bis(2-ethylhexyl) phthalate	50.3		5.00	ug/L	40.0	ND	126	8-158	11.5	82
Butyl benzyl phthalate	41.8		5.00	ug/L	40.0	ND	105	1-152	8.72	60
Carbazole	36.6		5.00	ug/L	40.0	ND	91.6	1-140	6.45	50
Chrysene	38.7		5.00	ug/L	40.0	ND	96.7	17-168	8.22	87
Dibenzo(a,h)anthracene	43.9		5.00	ug/L	40.0	ND	110	1-227	8.53	126
Diethyl phthalate	36.2		5.00	ug/L	40.0	ND	90.4	1-120	3.90	100
Dimethyl phthalate	34.8		5.00	ug/L	40.0	ND	86.9	1-120	7.37	183
Di-n-butyl phthalate	40.7		5.00	ug/L	40.0	ND	102	1-120	4.84	47
Di-n-octyl phthalate	43.1		5.00	ug/L	40.0	ND	108	4-146	3.80	69
Fluoranthene	35.7		5.00	ug/L	40.0	ND	89.3	26-137	7.16	66
Fluorene	32.3		5.00	ug/L	40.0	ND	80.7	59-121	4.08	38
Hexachlorobenzene	35.9		5.00	ug/L	40.0	ND	89.8	1-152	4.37	55
Hexachlorobutadiene	24.0		5.00	ug/L	40.0	ND	60.0	24-120	0.0542	62
Hexachlorocyclopentadiene	23.1		5.00	ug/L	40.0	ND	57.9	1-140	8.41	50
Hexachloroethane	25.2		5.00	ug/L	40.0	ND	63.1	40-120	3.93	52
Indeno(1,2,3-cd)pyrene	48.3		5.00	ug/L	40.0	ND	121	1-171	7.41	99
Isophorone	31.0		5.00	ug/L	40.0	ND	77.4	21-196	1.84	93
Naphthalene	31.2		5.00	ug/L	40.0	ND	77.9	21-133	2.63	65
n-Decane	9.16		5.00	ug/L	40.0	ND	22.9	1-140	8.41	50
Nitrobenzene	30.6		5.00	ug/L	40.0	ND	76.5	35-180	0.145	50
N-Nitosodi-n-butylamine	32.7		5.00	ug/L	40.0	ND	81.6	1-140	1.77	50
N-Nitrosodiethylamine	29.9		5.00	ug/L	40.0	ND	74.7	1-140	5.33	50
N-Nitrosodimethylamine	15.5		5.00	ug/L	40.0	ND	38.7	1-140	8.78	50
N-Nitrosodi-n-propylamine	32.2		5.00	ug/L	40.0	ND	80.6	1-230	2.57	87
N-Nitrosodiphenylamine	38.5		5.00	ug/L	40.0	ND	96.3	1-140	8.16	50
n-Octadecane	39.3		5.00	ug/L	40.0	ND	98.4	1-140	5.11	50
Pentachlorobenzene	33.2		5.00	ug/L	40.0	ND	83.1	1-140	6.29	50
Pentachlorophenol	45.2		5.00	ug/L	40.0	ND	113	14-176	10.0	86
Phenanthrene	36.2		5.00	ug/L	40.0	ND	90.5	54-120	5.21	39
Phenol	21.3		5.00	ug/L	40.0	ND	53.1	5-120	1.46	64
Pyrene	34.9		5.00	ug/L	40.0	ND	87.2	52-120	8.90	49
Pyridine	10.0		5.00	ug/L	40.0	ND	25.0	1-140	3.36	50
3-Methylphenol	18.2		10.0	ug/L	20.0	ND	90.8	1-140	3.16	50



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Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K247 - EPA 1657										
Blank (B23K247-BLK1)					Prepared: 11/20/23 09:39 Analyzed: 11/21/23 13:46					
Chlorpyrifos (2)	ND		0.250	ug/L						
Demeton-o (2)	ND		0.250	ug/L						
Demeton-s (2)	ND		0.250	ug/L						
Diazinon (2)	ND		0.250	ug/L						
ethyl-Parathion (2)	ND		0.250	ug/L						
Malathion (2)	ND		0.250	ug/L						
methyl Azinphos (Guthion) (2)	ND		0.250	ug/L						
LCS (B23K247-BS1)					Prepared: 11/20/23 09:39 Analyzed: 11/21/23 14:07					
Chlorpyrifos (2)	0.850		0.250	ug/L	1.00		85.0	48-150		
Demeton-o (2)	0.620		0.250	ug/L	0.955		64.9	16-150		
Demeton-s (2)	0.710		0.250	ug/L	1.05		67.6	16-150		
Diazinon (2)	0.860		0.250	ug/L	1.00		86.0	50-150		
ethyl-Parathion (2)	0.810		0.250	ug/L	1.00		81.0	50-150		
Malathion (2)	0.825		0.250	ug/L	1.00		82.5	50-150		
methyl Azinphos (Guthion) (2)	0.895		0.250	ug/L	1.00		89.5	37-150		
Matrix Spike (B23K247-MS1)					Source: 23K0699-02 Prepared: 11/20/23 09:39 Analyzed: 11/21/23 16:15					
Chlorpyrifos (2)	0.820		0.250	ug/L	1.00	ND	82.0	25-150		
Demeton-o (2)	0.355		0.250	ug/L	0.955	ND	37.2	25-150		
Demeton-s (2)	0.640		0.250	ug/L	1.05	ND	61.0	25-150		
Diazinon (2)	0.975		0.250	ug/L	1.00	ND	97.5	25-150		
ethyl-Parathion (2)	0.820		0.250	ug/L	1.00	ND	82.0	25-150		
Malathion (2)	0.880		0.250	ug/L	1.00	ND	88.0	25-150		
methyl Azinphos (Guthion) (2)	1.10		0.250	ug/L	1.00	ND	110	25-150		
Matrix Spike Dup (B23K247-MSD1)					Source: 23K0699-02 Prepared: 11/20/23 09:39 Analyzed: 11/21/23 15:32					
Chlorpyrifos (2)	0.860		0.250	ug/L	1.00	ND	86.0	25-150	4.76	200
Demeton-o (2)	0.380		0.250	ug/L	0.955	ND	39.8	25-150	6.80	200
Demeton-s (2)	0.650		0.250	ug/L	1.05	ND	61.9	25-150	1.55	200
Diazinon (2)	1.02		0.250	ug/L	1.00	ND	102	25-150	4.02	200
ethyl-Parathion (2)	0.860		0.250	ug/L	1.00	ND	86.0	25-150	4.76	200
Malathion (2)	0.945		0.250	ug/L	1.00	ND	94.5	25-150	7.12	200
methyl Azinphos (Guthion) (2)	1.22		0.250	ug/L	1.00	ND	122	25-150	10.3	200



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Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K248 - EPA 608.3

Blank (B23K248-BLK1)

Prepared: 11/21/23 08:46 Analyzed: 11/22/23 11:02

4,4'-DDD	ND		0.0250	ug/L						
4,4'-DDE	ND		0.00500	ug/L						
4,4'-DDT	ND		0.0250	ug/L						
Aldrin	ND		0.00500	ug/L						
Alpha-BHC	ND		0.00500	ug/L						
Beta-BHC	ND		0.00500	ug/L						
Chlordane	ND		0.200	ug/L						
Delta-BHC	ND		0.00500	ug/L						
Dicofol	ND		0.0500	ug/L						
Dieldrin	ND		0.00500	ug/L						
Endosulfan I	ND		0.00500	ug/L						
Endosulfan II	ND		0.0250	ug/L						
Endosulfan Sulfate	ND		0.0250	ug/L						
Endrin	ND		0.0250	ug/L						
Endrin-Aldehyde	ND		0.00500	ug/L						
Gamma-BHC	ND		0.00500	ug/L						
Heptachlor	ND		0.00500	ug/L						
Heptachlor epoxide	ND		0.00500	ug/L						
Methoxychlor	ND		0.00500	ug/L						
Mirex	ND		0.00500	ug/L						
PCB-1016	ND		0.200	ug/L						
PCB-1221	ND		0.200	ug/L						
PCB-1232	ND		0.200	ug/L						
PCB-1242	ND		0.200	ug/L						
PCB-1248	ND		0.200	ug/L						
PCB-1254	ND		0.200	ug/L						
PCB-1260	ND		0.200	ug/L						
Toxaphene	ND		0.200	ug/L						
Polychlorinated biphenyls, Total	ND		0.200	ug/L						



Westway
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Project: WW Bio
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Reported: 01/03/2024 06:05

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K248 - EPA 608.3 (Continued)

LCS (B23K248-BS1)

Prepared: 11/21/23 08:46 Analyzed: 11/22/23 11:18

4,4'-DDD	0.0390		0.0250	ug/L	0.0500		78.0	31-141		
4,4'-DDE	0.0350		0.00500	ug/L	0.0500		70.0	30-145		
4,4'-DDT	0.0400		0.0250	ug/L	0.0500		80.0	25-160		
Aldrin	0.0330		0.00500	ug/L	0.0500		66.0	42-140		
Alpha-BHC	0.0410		0.00500	ug/L	0.0500		82.0	37-140		
Beta-BHC	0.0480		0.00500	ug/L	0.0500		96.0	17-147		
Delta-BHC	0.0470		0.00500	ug/L	0.0500		94.0	34-140		
Dicofol (2)	0.151	BS Org	0.0500	ug/L	0.500		30.2	50-150		
Dieldrin	0.0470		0.00500	ug/L	0.0500		94.0	36-146		
Endosulfan I	0.0480		0.00500	ug/L	0.0500		96.0	45-153		
Endosulfan II	0.0530		0.0250	ug/L	0.0500		106	0-202		
Endosulfan Sulfate	0.0430		0.0250	ug/L	0.0500		86.0	50-150		
Endrin	0.0470		0.0250	ug/L	0.0500		94.0	30-147		
Endrin-Aldehyde	0.0390		0.00500	ug/L	0.0500		78.0	50-150		
Gamma-BHC	0.0460		0.00500	ug/L	0.0500		92.0	32-140		
Heptachlor	0.0350		0.00500	ug/L	0.0500		70.0	19-140		
Heptachlor epoxide	0.0430		0.00500	ug/L	0.0500		86.0	37-142		
Methoxychlor	0.0500		0.00500	ug/L	0.0500		100	26-144		
Mirex	0.0210	BS Org	0.00500	ug/L	0.0500		42.0	50-150		

LCS (B23K248-BS2)

Prepared: 11/21/23 08:46 Analyzed: 11/22/23 11:33

PCB-1016	0.603		0.200	ug/L	1.00		60.3	50-140		
PCB-1260	0.569		0.200	ug/L	1.00		56.9	8-140		

Matrix Spike (B23K248-MS1)

Source: 23K0699-02

Prepared: 11/21/23 08:46 Analyzed: 11/22/23 12:03

4,4'-DDD	0.0800		0.0500	ug/L	0.100	ND	80.0	31-141		
4,4'-DDE	0.0520		0.0100	ug/L	0.100	ND	52.0	30-145		
4,4'-DDT	0.0680		0.0500	ug/L	0.100	ND	68.0	25-160		
Aldrin (2)	0.0560		0.0100	ug/L	0.100	ND	56.0	42-140		
Alpha-BHC	0.0740		0.0100	ug/L	0.100	ND	74.0	37-140		
Beta-BHC	0.0640		0.0100	ug/L	0.100	ND	64.0	17-147		
Delta-BHC	0.100		0.0100	ug/L	0.100	ND	100	34-140		
Dicofol (2)	0.688		0.100	ug/L	1.00	ND	68.8	50-150		
Dieldrin	0.0840		0.0100	ug/L	0.100	ND	84.0	36-146		
Endosulfan I	0.0700		0.0100	ug/L	0.100	ND	70.0	45-153		
Endosulfan II	0.100		0.0500	ug/L	0.100	ND	100	0-202		
Endosulfan Sulfate	0.0800		0.0500	ug/L	0.100	ND	80.0	50-150		
Endrin	0.0880		0.0500	ug/L	0.100	ND	88.0	30-147		
Endrin-Aldehyde	0.0920		0.0100	ug/L	0.100	ND	92.0	50-150		
Gamma-BHC	0.0640		0.0100	ug/L	0.100	ND	64.0	32-140		
Heptachlor	0.0780		0.0100	ug/L	0.100	ND	78.0	19-140		
Heptachlor epoxide	0.0820		0.0100	ug/L	0.100	ND	82.0	37-142		
Methoxychlor	0.118		0.0100	ug/L	0.100	ND	118	26-144		
Mirex	0.0600		0.0100	ug/L	0.100	ND	60.0	50-150		
PCB-1016	ND		0.400	ug/L		ND		50-140		



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Project: WW Bio
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Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K248 - EPA 608.3 (Continued)										
Matrix Spike Dup (B23K248-MSD1) Source: 23K0699-02 Prepared: 11/21/23 08:46 Analyzed: 11/22/23 12:18										
4,4'-DDD	0.0900		0.0500	ug/L	0.100	ND	90.0	31-141	11.8	39
4,4'-DDE	0.0660		0.0100	ug/L	0.100	ND	66.0	30-145	23.7	35
4,4'-DDT	0.0820		0.0500	ug/L	0.100	ND	82.0	25-160	18.7	42
Aldrin (2)	0.0480		0.0100	ug/L	0.100	ND	48.0	42-140	15.4	35
Alpha-BHC	0.0900		0.0100	ug/L	0.100	ND	90.0	37-140	19.5	36
Beta-BHC	0.0760		0.0100	ug/L	0.100	ND	76.0	17-147	17.1	44
Delta-BHC	0.118		0.0100	ug/L	0.100	ND	118	34-140	16.5	43
Dicofol	3.08	MS1, E	0.100	ug/L	1.00	ND	308	50-150	1.70	50
Dieldrin	0.0980		0.0100	ug/L	0.100	ND	98.0	36-146	15.4	49
Endosulfan I	0.0820		0.0100	ug/L	0.100	ND	82.0	45-153	15.8	28
Endosulfan II	0.116		0.0500	ug/L	0.100	ND	116	0-202	14.8	53
Endosulfan Sulfate	0.0860		0.0500	ug/L	0.100	ND	86.0	50-150	7.23	50
Endrin	0.100		0.0500	ug/L	0.100	ND	100	30-147	12.8	48
Endrin-Aldehyde	0.0980		0.0100	ug/L	0.100	ND	98.0	50-150	6.32	50
Gamma-BHC	0.0760		0.0100	ug/L	0.100	ND	76.0	32-140	17.1	39
Heptachlor	0.0920		0.0100	ug/L	0.100	ND	92.0	19-140	16.5	52
Heptachlor epoxide	0.0900		0.0100	ug/L	0.100	ND	90.0	37-142	9.30	26
Methoxychlor	0.0760		0.0100	ug/L	0.100	ND	76.0	26-144	43.3	38
Mirex	0.0540		0.0100	ug/L	0.100	ND	54.0	50-150	10.5	50



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Houston, TX 77041

Project: WW Bio
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Quality Control (Continued)

Volatile Organics

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K280 - EPA 624.1

Blank (B23K280-BLK1)

Prepared: 11/20/23 09:07 Analyzed: 11/20/23 09:07

1,1,1-Trichloroethane	ND		5.00	ug/L
1,1,2,2-Tetrachloroethane	ND		5.00	ug/L
1,1,2-Trichloroethane	ND		5.00	ug/L
1,1-Dichloroethane	ND		5.00	ug/L
1,1-Dichloroethene	ND		5.00	ug/L
1,2-Dibromoethane	ND		5.00	ug/L
1,2-Dichlorobenzene	ND		5.00	ug/L
1,2-Dichloroethane	ND		5.00	ug/L
1,2-Dichloropropane	ND		5.00	ug/L
1,3-Dichlorobenzene	ND		5.00	ug/L
1,4-Dichlorobenzene	ND		5.00	ug/L
2-Butanone	ND		10.0	ug/L
2-Chloroethyl vinyl ether	ND		5.00	ug/L
Acrolein	ND		5.00	ug/L
Acrylonitrile	ND		5.00	ug/L
Benzene	ND		5.00	ug/L
Bromodichloromethane	ND		5.00	ug/L
Bromoform	ND		5.00	ug/L
Bromomethane	ND		5.00	ug/L
Carbon Disulfide	ND		5.00	ug/L
Carbon Tetrachloride	ND		5.00	ug/L
Chlorobenzene	ND		5.00	ug/L
Chloroethane	ND		5.00	ug/L
Chloroform	ND		4.00	ug/L
chloromethane	ND		5.00	ug/L
cis-1,2-Dichloroethene	ND		5.00	ug/L
cis-1,3-Dichloropropene	ND		5.00	ug/L
Dibromochloromethane	ND		5.00	ug/L
Epichlorohydrin	ND		25.0	ug/L
Ethylbenzene	ND		5.00	ug/L
m+p-Xylene	ND		10.0	ug/L
Methylene Chloride	ND		5.00	ug/L
Methyl-tert-butyl ether (MTBE)	ND		5.00	ug/L
o-Xylene	ND		5.00	ug/L
Styrene	ND		5.00	ug/L
Tetrachloroethene	ND		5.00	ug/L
Toluene	ND		5.00	ug/L
trans-1,2-Dichloroethene	ND		4.00	ug/L
trans-1,3-Dichloropropene	ND		5.00	ug/L
Trichloroethene	ND		5.00	ug/L
Vinyl acetate	ND		5.00	ug/L
Vinyl chloride	ND		5.00	ug/L
Xylenes, Total	ND		5.00	ug/L
Total Trihalomethanes	ND		5.00	ug/L
1,3-Dichloropropene, Total	ND		5.00	ug/L



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K280 - EPA 624.1 (Continued)										
Matrix Spike (B23K280-MS1)	Source: 23K0699-01				Prepared: 11/20/23 12:10		Analyzed: 11/20/23 12:10			
1,1,1-Trichloroethane	19.9			ug/L	20.0	0.00	99.5	52-162		
1,1,2,2-Tetrachloroethane	19.7			ug/L	20.0	0.00	98.3	46-157		
1,1,2-Trichloroethane	20.1			ug/L	20.0	0.00	100	52-150		
1,1-Dichloroethane	19.5			ug/L	20.0	0.00	97.6	59-155		
1,1-Dichloroethene	17.8			ug/L	20.0	0.00	89.2	0-234		
1,2-Dibromoethane	19.5			ug/L	20.0	0.00	97.3	60-140		
1,2-Dichlorobenzene	19.9			ug/L	20.0	0.00	99.6	18-190		
1,2-Dichloroethane	20.0			ug/L	20.0	0.00	100	49-155		
1,2-Dichloropropane	19.8			ug/L	20.0	0.00	99.2	0-210		
1,3-Dichlorobenzene	20.0			ug/L	20.0	0.00	100	59-156		
1,4-Dichlorobenzene	20.4			ug/L	20.0	0.00	102	18-190		
2-Butanone	31.2			ug/L	40.0	0.00	78.0	60-140		
2-Chloroethyl vinyl ether	23.9			ug/L	20.0	0.00	119	0-305		
Acrolein	0.00	MS1		ug/L	20.0	0.00		40-160		
Acrylonitrile	17.9			ug/L	20.0	0.00	89.5	40-160		
Benzene	20.1			ug/L	20.0	0.00	101	37-151		
Bromodichloromethane	37.9			ug/L	20.0	16.6	107	35-155		
Bromoform	20.1			ug/L	20.0	0.00	101	45-169		
Bromomethane	22.3			ug/L	20.0	0.00	112	0-242		
Carbon Disulfide	21.0			ug/L	20.0	0.00	105	60-140		
Carbon Tetrachloride	20.0			ug/L	20.0	0.00	99.8	70-140		
Chlorobenzene	19.6			ug/L	20.0	0.00	98.1	37-160		
Chloroethane	20.6			ug/L	20.0	0.00	103	14-230		
Chloroform	89.1			ug/L	20.0	67.2	109	51-138		
chloromethane	19.0			ug/L	20.0	0.00	94.8	0-273		
cis-1,2-Dichloroethene	19.6			ug/L	20.0	0.00	98.2	60-140		
cis-1,3-Dichloropropene	20.3			ug/L	20.0	0.00	101	0-227		
Dibromochloromethane	23.2			ug/L	20.0	2.72	103	53-149		
Epichlorohydrin	93.2			ug/L	100	0.00	93.2	70-130		
Ethylbenzene	19.6			ug/L	20.0	0.00	98.1	37-162		
m+p-Xylene	39.0			ug/L	40.0	0.00	97.6	60-140		
Methylene Chloride	19.1			ug/L	20.0	0.00	95.6	0-221		
Methyl-tert-butyl ether (MTBE)	19.3			ug/L	20.0	0.00	96.4	70-130		
o-Xylene	19.0			ug/L	20.0	0.00	95.2	60-140		
Styrene	19.3			ug/L	20.0	0.00	96.5	60-140		
Tetrachloroethene	20.0			ug/L	20.0	0.00	100	64-148		
Toluene	19.8			ug/L	20.0	0.00	99.0	47-150		
trans-1,2-Dichloroethene	19.3			ug/L	20.0	0.00	96.4	54-156		
trans-1,3-Dichloropropene	20.0			ug/L	20.0	0.00	100	17-183		
Trichloroethene	20.1			ug/L	20.0	0.00	100	70-157		
Vinyl acetate	22.0			ug/L	20.0	0.00	110	60-140		
Vinyl chloride	21.7			ug/L	20.0	0.00	108	0-251		



Westway
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Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 01/03/2024 06:05

Quality Control (Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K280 - EPA 624.1 (Continued)										
Matrix Spike Dup (B23K280-MSD1) Source: 23K0699-01					Prepared: 11/20/23 13:07		Analyzed: 11/20/23 13:07			
1,1,1-Trichloroethane	20.1			ug/L	20.0	0.00	101	52-162	1.15	36
1,1,2,2-Tetrachloroethane	20.6			ug/L	20.0	0.00	103	46-157	4.52	61
1,1,2-Trichloroethane	20.3			ug/L	20.0	0.00	102	52-150	1.34	45
1,1-Dichloroethane	19.7			ug/L	20.0	0.00	98.4	59-155	0.765	40
1,1-Dichloroethene	18.2			ug/L	20.0	0.00	90.9	0-234	1.94	32
1,2-Dibromoethane	19.8			ug/L	20.0	0.00	99.1	60-140	1.83	20
1,2-Dichlorobenzene	20.2			ug/L	20.0	0.00	101	18-190	1.35	57
1,2-Dichloroethane	20.5			ug/L	20.0	0.00	102	49-155	2.17	49
1,2-Dichloropropane	20.2			ug/L	20.0	0.00	101	0-210	1.85	55
1,3-Dichlorobenzene	20.1			ug/L	20.0	0.00	101	59-156	0.548	43
1,4-Dichlorobenzene	20.6			ug/L	20.0	0.00	103	18-190	1.27	57
2-Butanone	33.9			ug/L	40.0	0.00	84.7	60-140	8.27	20
2-Chloroethyl vinyl ether	24.3			ug/L	20.0	0.00	122	0-305	1.99	71
Acrolein	0.00	MS1		ug/L	20.0	0.00		40-160		60
Acrylonitrile	17.7			ug/L	20.0	0.00	88.3	40-160	1.35	60
Benzene	20.0			ug/L	20.0	0.00	100	37-151	0.548	61
Bromodichloromethane	37.2			ug/L	20.0	16.6	103	35-155	2.05	56
Bromoform	20.8			ug/L	20.0	0.00	104	45-169	3.13	42
Bromomethane	23.1			ug/L	20.0	0.00	115	0-242	3.31	61
Carbon Disulfide	21.0			ug/L	20.0	0.00	105	60-140	0.0952	20
Carbon Tetrachloride	20.1			ug/L	20.0	0.00	100	70-140	0.500	41
Chlorobenzene	20.1			ug/L	20.0	0.00	100	37-160	2.32	53
Chloroethane	21.2			ug/L	20.0	0.00	106	14-230	2.73	78
Chloroform	88.7			ug/L	20.0	67.2	107	51-138	0.416	54
chloromethane	19.2			ug/L	20.0	0.00	96.0	0-273	1.21	60
cis-1,2-Dichloroethene	19.9			ug/L	20.0	0.00	99.4	60-140	1.21	20
cis-1,3-Dichloropropene	19.5			ug/L	20.0	0.00	97.6	0-227	3.67	58
Dibromochloromethane	23.5			ug/L	20.0	2.72	104	53-149	1.28	50
Epichlorohydrin	96.8			ug/L	100	0.00	96.8	70-130	3.78	20
Ethylbenzene	20.1			ug/L	20.0	0.00	101	37-162	2.47	63
m+p-Xylene	40.1			ug/L	40.0	0.00	100	60-140	2.71	20
Methylene Chloride	19.0			ug/L	20.0	0.00	94.8	0-221	0.788	28
Methyl-tert-butyl ether (MTBE)	19.6			ug/L	20.0	0.00	98.0	70-130	1.60	20
o-Xylene	19.5			ug/L	20.0	0.00	97.4	60-140	2.29	20
Styrene	19.9			ug/L	20.0	0.00	99.5	60-140	3.06	20
Tetrachloroethene	19.8			ug/L	20.0	0.00	99.2	64-148	0.903	39
Toluene	20.0			ug/L	20.0	0.00	99.8	47-150	0.755	41
trans-1,2-Dichloroethene	19.5			ug/L	20.0	0.00	97.6	54-156	1.29	45
trans-1,3-Dichloropropene	20.4			ug/L	20.0	0.00	102	17-183	1.68	86
Trichloroethene	20.3			ug/L	20.0	0.00	102	70-157	1.09	48
Vinyl acetate	22.7			ug/L	20.0	0.00	113	60-140	2.91	20
Vinyl chloride	21.8			ug/L	20.0	0.00	109	0-251	0.689	66



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Quality Control (Continued)

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K238 - OIA 1677										
Blank (B23K238-BLK1)					Prepared: 11/17/23 11:50 Analyzed: 11/17/23 12:30					
Cyanide, Total	ND		10.0	ug/L						
Cyanide, Amenable	ND		2.00	ug/L						
LCS (B23K238-BS1)					Prepared: 11/17/23 11:50 Analyzed: 11/17/23 12:35					
Cyanide, Amenable	55.1			ug/L	50.0		110	82-132		
Cyanide, Total	105			ug/L	100		105	84-116		
Duplicate (B23K238-DUP1)					Source: 23K0697-03		Prepared: 11/17/23 11:50 Analyzed: 11/17/23 13:05			
Cyanide, Amenable	0.986 J		2.00	ug/L		1.02			3.82	15
Cyanide, Total	ND		10.0	ug/L		ND				47
Matrix Spike (B23K238-MS1)					Source: 23K0697-03		Prepared: 11/17/23 11:50 Analyzed: 11/17/23 13:10			
Cyanide, Amenable	52.6		2.00	ug/L	50.0	1.02	103	82-130		
Cyanide, Total	56.7		10.0	ug/L	50.0	ND	113	64-136		
Batch: B23K257 - EPA 300.0										
Matrix Spike (B23K257-MS1)					Source: 23K0402-01		Prepared: 11/17/23 11:44 Analyzed: 11/17/23 11:44			
Chloride	234		8.42	mg/L	158	78.1	98.7	80-120		
Sulfate	185		8.42	mg/L	158	31.8	97.3	80-120		
Matrix Spike (B23K257-MS2)					Source: 23K0699-02		Prepared: 11/17/23 13:05 Analyzed: 11/17/23 13:05			
Fluoride	1.39		0.0526	mg/L	1.05	0.310	102	80-120		
Nitrate as N	13.4		0.105	mg/L	5.26	8.32	96.4	80-120		
Matrix Spike Dup (B23K257-MSD1)					Source: 23K0402-01		Prepared: 11/17/23 12:01 Analyzed: 11/17/23 12:01			
Chloride	234		8.42	mg/L	158	78.1	98.7	80-120	0.0180	15
Sulfate	185		8.42	mg/L	158	31.8	97.2	80-120	0.114	15



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Quality Control (Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: B23K257 - EPA 300.0 (Continued)

Matrix Spike Dup (B23K257-MSD2) Source: 23K0699-02

Prepared: 11/17/23 13:20 Analyzed: 11/17/23 13:20

Fluoride	1.39		0.0526	mg/L	1.05	0.310	103	80-120	0.303	15
Nitrate as N	13.4		0.105	mg/L	5.26	8.32	96.9	80-120	0.228	15

Batch: B23K260 - SM 5210 B

Blank (B23K260-BLK1)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:44

Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L						
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Blank (B23K260-BLK2)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:44

Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L						
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Blank (B23K260-BLK3)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:44

Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L						
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Blank (B23K260-BLK4)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:44

Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L						
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LCS (B23K260-BS1)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:52

Biochemical Oxygen Demand, Carbonaceous	223		17.5	mg/L	198		113	85-115		
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LCS (B23K260-BS2)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:52

Biochemical Oxygen Demand, Carbonaceous	230 BOD G		17.5	mg/L	198		116	85-115		
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LCS (B23K260-BS3)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:52

Biochemical Oxygen Demand, Carbonaceous	224		17.5	mg/L	198		113	85-115		
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LCS (B23K260-BS4)

Prepared: 11/17/23 08:47 Analyzed: 11/22/23 07:52

Biochemical Oxygen Demand, Carbonaceous	229 BOD G		17.5	mg/L	198		116	85-115		
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Westway
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Project: WW Bio
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Quality Control (Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K264 - SM 2540 D, E										
Blank (B23K264-BLK1)										
Total Suspended Solids	ND		2.0	mg/L						
					Prepared: 11/17/23 11:02 Analyzed: 11/17/23 13:40					
LCS (B23K264-BS1)										
Total Suspended Solids	20.2			mg/L	20.0		101	85-115		
					Prepared: 11/17/23 11:02 Analyzed: 11/17/23 13:40					
Duplicate (B23K264-DUP1) Source: 23K0700-01										
Total Suspended Solids	1340		100	mg/L		1300			3.40	10
Batch: B23K277 - SM 2540 C										
Blank (B23K277-BLK1)										
Total Dissolved Solids	ND		5.0	mg/L						
					Prepared: 11/20/23 12:30 Analyzed: 11/21/23 14:00					
LCS (B23K277-BS1)										
Total Dissolved Solids	147			mg/L	150		98.0	85-115		
					Prepared: 11/20/23 12:30 Analyzed: 11/21/23 14:00					
Duplicate (B23K277-DUP1) Source: 23K0699-02										
Total Dissolved Solids	649		5.0	mg/L		657			1.23	10
Batch: B23K278 - SM 4500-N ORG B										
Blank (B23K278-BLK1)										
Total Kjeldahl Nitrogen	ND		0.500	mg/L						
					Prepared: 11/20/23 10:00 Analyzed: 11/22/23 07:45					
LCS (B23K278-BS1)										
Total Kjeldahl Nitrogen	2.91		0.500	mg/L	3.00		97.0	85-115		
					Prepared: 11/20/23 10:00 Analyzed: 11/22/23 07:45					



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Quality Control (Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K278 - SM 4500-N ORG B (Continued)										
Duplicate (B23K278-DUP1)	Source: 23K0699-02									
Total Kjeldahl Nitrogen	1.73		0.500	mg/L		1.70			1.75	20
Matrix Spike (B23K278-MS1)										
Total Kjeldahl Nitrogen	4.45		0.500	mg/L	3.00	1.70	91.7	70-130		
Reference (B23K278-SRM1)										
Total Kjeldahl Nitrogen	2.95			mg/L	3.00		98.3	0-200		
Batch: B23K282 - SM 2320										
Blank (B23K282-BLK1)	Source: 23K0699-02									
Total Alkalinity as CaCO ₃	ND		20.0	mg/L						
Blank (B23K282-BLK2)										
Total Alkalinity as CaCO ₃	ND		20.0	mg/L						
LCS (B23K282-BS1)										
Total Alkalinity as CaCO ₃	140			mg/L	150		93.5	90-110		
LCS (B23K282-BS2)										
Total Alkalinity as CaCO ₃	141			mg/L	150		93.9	90-110		
Duplicate (B23K282-DUP1)	Source: 23K0699-02									
Total Alkalinity as CaCO ₃	199		20.0	mg/L		199			0.302	10
Reference (B23K282-SRM1)										
Total Alkalinity as CaCO ₃	47.2			mg/L	50.0		94.4	0-200		



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Quality Control (Continued)

Wet Chemistry (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23K290 - EPA 350.1										
Blank (B23K290-BLK1)										
Ammonia as N	ND		0.0500	mg/L						
					Prepared: 11/20/23 14:49		Analyzed: 11/20/23 14:49			
LCS (B23K290-BS1)										
Ammonia as N	1.33			mg/L	1.30		103	90-110		
					Prepared: 11/20/23 14:51		Analyzed: 11/20/23 14:51			
Duplicate (B23K290-DUP1)										
Ammonia as N	ND		0.0500	mg/L		ND				10
					Prepared: 11/20/23 15:22		Analyzed: 11/20/23 15:22			
Duplicate (B23K290-DUP2)										
Ammonia as N	ND		0.0500	mg/L		ND				10
					Prepared: 11/20/23 15:36		Analyzed: 11/20/23 15:36			
Matrix Spike (B23K290-MS1)										
Ammonia as N	1.02		0.0505	mg/L	1.01	ND	101	90-110		
					Prepared: 11/20/23 15:24		Analyzed: 11/20/23 15:24			
Matrix Spike (B23K290-MS2)										
Ammonia as N	1.01		0.0505	mg/L	1.01	ND	100	90-110		
					Prepared: 11/20/23 15:38		Analyzed: 11/20/23 15:38			



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Notes and Definitions

Item	Definition
BOD G	The GGA associated with this batch failed to meet method acceptance criteria.
BS Org	Blank Spike recovered outside of acceptance criteria for the selected compounds. These compounds have been identified as poor performing compounds for this method. Data have been reported.
E	The reported result is above the calibration range for this analysis. Results should be considered ESTIMATED.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
MS1	MS/MSD recovery was outside of acceptance criteria due to matrix interference.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	WATER - CRESTED POISSON
IWS Sample Reason	
<input type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input checked="" type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
WW Full Scan + Permit	

23K0699



Composite Info	
Sample ID:	23K0699-01
Split Samples:	Yes No
Number of bottles:	1 2 3 4 5
Sample Volume:	800 mL
Sample Interval:	min
Autosampler secured/locked:	Yes No N/A
Comp Temp(°C)	5.4

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0699-01	25	CMan	W	SP 2_CompMan	7:12	7:59	(1) 1 L Amber Glass, PTFE Lined Cap. NaOH to pH >10 Cool <6°C, NaOH to pH >10, NaAsO2 if TRC present	Cyanide OIA 1677 Cyanide D7511 Mercury 1631E VOA 624.1 VOA 624.1		
23K0699-02	16	C	W	SP 2_Comp	8:00	8:00	(1) 1 L Amber Glass, PTFE Lined Cap. 0.008% Na2S2O3 Cool <6°C, 0.008% Na2S2O3	TSS 2540 D Pesticides 1657 Pesticides 608.3 BNA 625.1		
					11/16/23	11/17/23	(1) 1 L PE Cool <6°C	Sulfate 300.0 Nitrate as N 300.0 Fluoride 300.0 Chloride 300.0		
					11/16/23	11/17/23	(2) 1 L PE or Glass Cool <6°C	CBOD 5210 B TDS 2540 C Alkalinity 2320 B		
							(2) 1 L PE or Glass, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	NH3 as N 350.1 TKN 4500-NH3 D		
							(1) 500 mL PE, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	Phosphorus 200.7		

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>[Signature]</i>	11/17/23 11:15		<i>Edward Hoke</i>	11/17/23 11:15	Co H
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location

Company Name:	Westway Pollutant Monitoring	
Address:	10273 Genard Rd Houston, TX 77041	
Permit Number:	10495-139	



Sampler:	J. J. FAYELL (signature)	
IWS Sample Reason	<input type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	
WW Full Scan + Permit	<input type="checkbox"/> Compliance Verification <input checked="" type="checkbox"/> POTW Permit Application	

23K0699



Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0699-03	1	G	W	Field Blank		12:11 11/16/23	(1) 40 mL Glass, PTFE lined septum Cool <6°C	Mercury 1631E	[A]	

* COVERED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPLETED IN 15 MIN

Δ COVERED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPLETED AS ABOVE

□ COVERED AS A 4 PARTS GRAB, 7:12, 12:11 / 1722, 2259 COMPLETED AS ABOVE

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
(signature)	11/17/23		see page 1		
(signature)					

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	WATER - CRESTED POISSON
IWS Sample Reason	
<input type="checkbox"/> Permit Requirement	<input type="checkbox"/> Compliance Verification
<input type="checkbox"/> Special Report	<input checked="" type="checkbox"/> POTW Permit Application
<input type="checkbox"/> Other	
WW Full Scan + Permit	

23K0699



Composite Info	
Sample ID:	23K0699-01
Split Samples:	Yes No
Number of bottles:	1 2 3 4 5
Sample Volume:	800 mL
Sample Interval:	min
Autosampler secured/locked:	Yes No N/A
Comp Temp(°C)	5.4

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0699-01	25	CMan	W	SP 2_CompMan	7:12	7:59	(1) 1 L Amber Glass, PTFE Lined Cap. NaOH to pH >10 Cool <6°C, NaOH to pH >10, NaAsO2 if TRC present	Cyanide OIA 1677 Cyanide D7511 Mercury 1631E VOA 624.1 VOA 624.1		
23K0699-02	16	C	W	SP 2_Comp	8:00	8:00	(1) 1 L Amber Glass, PTFE Lined Cap. 0.008% Na2S2O3 Cool <6°C, 0.008% Na2S2O3	TSS 2540 D Pesticides 1657 Pesticides 608.3 BNA 625.1		
					11/16/23	11/17/23	(1) 1 L PE Cool <6°C	Sulfate 300.0 Nitrate as N 300.0 Fluoride 300.0 Chloride 300.0		
					11/16/23	11/17/23	(2) 1 L PE or Glass Cool <6°C	CBOD 5210 B TDS 2540 C Alkalinity 2320 B		
							(2) 1 L PE or Glass, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	NH3 as N 350.1 TKN 4500-NH3 D		
							(1) 500 mL PE, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	Phosphorus 200.7		

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>[Signature]</i>	11/17/23 11:15		<i>[Signature]</i>	11/17/23 11:15	Co H
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location

Company Name:	Westway Pollutant Monitoring	
Address:	10273 Genard Rd Houston, TX 77041	
Permit Number:	10495-139	



Sampler:	J. J. FANELL (signature)	
IWS Sample Reason		
<input type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Compliance Verification <input type="checkbox"/> POTW Permit Application	
WW Full Scan + Permit		

23K0699



Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0699-03	1	G	W	Field Blank		12:11 11/16/23	(1) 40 mL Glass, PTFE lined septum Cool <6°C	Mercury 1631E	[A]	

* COVERED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPLETED IN 15 MIN

Δ COVERED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPLETED AS ABOVE

□ COVERED AS A 4 PARTS GRAB, 7:12, 12:11 / 1722, 2259 COMPLETED AS ABOVE

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
(signature)	11/17/23		see page 1		
(signature)					

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	<i>Edmund Thiele</i>
IWS Sample Reason	
<input type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Compliance Verification <input checked="" type="checkbox"/> POTW Permit Application
WWF Full Scan + Permit	

23K0698



Composite Info			
Sample ID:	23K0698-01	Yes	No
Split Samples:		1	2
Number of bottles:		3	4
Sample Volume:	mL	min	max
Sample Interval:		Yes	No
Autosampler secured/locked:		Yes	No
Comp Temp(°C)		Yes	No

Field Test Traceability Info	
TRC ID:	68120510563
Temperature ID:	72157089
pH Measured By:	Paper Meter
pH ID:	73115700
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0698-01	1	C	W	SP 2_Grab	7/12	11/16/23	(1) 290 mL Sterile Plastic, 0.008% Na2S2O3 Cool <10°C, 0.008% Na2S2O3	Total Coliform and E.coli by Colliert	DO (mg/L) 7.2 pH 7.5 Temp (°C) 26.1 TRC (mg/L) 0.07	D.O. 7.2 pH 7.5 Temp 26.1 TRC 0.07 SIN 11/16/23

Relinquished by: (Signature)	11/16/23	08:56	Received by: (Signature)	11/16/23	08:56	Location
Relinquished by: (Signature)			Received by: (Signature)			Location



Westway
10273 Genard Rd
Houston, TX 77041

Project: WW Bio
Project Number: 10495-139
Project Manager: Regulatory Compliance

Reported: 12/11/2023 14:17

Sample Results

Sample: SP 2_Grab Effluent Biomonitoring sample
23K0698-01 (Water)

Date Collected: 11/16/2023 7:12
Date Received: 11/16/2023 8:56

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chlorine, total residual	ND		0.100	0.100	mg/L	11/16/2023 07:12	11/16/2023 07:12	JF	SM 4500-Cl D
Microbiology									
E.coli	1		1	1	MPN/10 0mL	11/16/2023 10:30	11/17/2023 11:46	SMS	Colilert
Field									
Temperature, Celsius	26.1		0.00	0.100	°C	11/16/2023 07:12	11/16/2023 07:12	JF	EPA 170.1
Oxygen, dissolved	7.20		1.00	1.00	mg/L	11/16/2023 07:12	11/16/2023 07:12	JF	SM 4500-O G
pH	7.50		0.0100	2.00	SU	11/16/2023 07:12	11/16/2023 07:12	JF	SM 4500-H+ B

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	WATER - CRESTADO PONSECA
IWS Sample Reason	
Permit Requirement	<input type="checkbox"/> Compliance Verification
Special Report	<input checked="" type="checkbox"/> POTW Permit Application
Other	<input type="checkbox"/>
WW Full Scan + Permit	

23K0699



Composite Info	
Sample ID:	23K0699-01
Split Samples:	Yes No Yes No
Number of bottles:	1 2 3 4 5 1 2 3 4 5
Sample Volume:	mL 800 mL
Sample Interval:	min 60 min
Autosampler secured/locked:	Yes No N/A Yes No N/A
Comp Temp(°C)	5.4

Field Test Traceability Info	
TRC ID:	
Temperature ID:	
pH Measured By:	Paper Meter
pH ID:	
Eff Sampler temp(°C)	
Inf Sampler temp(°C)	

Sample comments key:

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

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

Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0699-01	25	CMan	W	SP 2_CompMan	7:12 11/16/23	12:59 11/16/23	(1) 1 L Amber Glass, PTFE lined Cap, NaOH to pH >10 Cool <6°C, NaOH to pH >10, NaAsO2 if TRC present (46) 40 mL Glass, PTFE lined septum Cool <6°C 249/1631, 4 10A's 1241 (8) 40 mL Glass, PTFE lined septum, HCl to pH <2 Cool <6°C, HCl to pH <2 (1) 1 Gallon Plastic Cool <6°C	Cyanide OIA 1677 Cyanide D7511 Mercury 1631E VOA 624.1 VOA 624.1 TSS 2540 D		
23K0699-02	16	C	W	SP 2_Comp	8:00 11/16/23	8:00 11/17/23	(9) 1 L Amber Glass, PTFE lined Cap, 0.008% Na2S2O3 Cool <6°C, 0.008% Na2S2O3 (1) 1 L PE Cool <6°C	Pesticides 1657 Pesticides 608.3 BNA 625.1 Sulfate 300.0 Nitrate as N 300.0 Fluoride 300.0 Chloride 300.0		
							(2) 1 L PE or Glass Cool <6°C	CBOD 5210 B TDS 2540 C Alkalinity 2320 B		
							(2) 1 L PE or Glass, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	NH3 as N 350.1 TKN 4500-NH3 D		
							(1) 500 mL PE, H2SO4 to pH <2 Cool <6°C, H2SO4 to pH <2	Phosphorus 200.7		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Location
<i>[Signature]</i>	11/17/23 11:15	<i>Edward Hinkel</i>	11/17/23 11:15	Co H
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Location

Company Name:	Westway Pollutant Monitoring
Address:	10273 Genard Rd Houston, TX 77041
Permit Number:	10495-139



Sampler:	DRURY HALL CRESAURIO FONSECA
IWS Sample Reason	
<input type="checkbox"/> Permit Requirement <input type="checkbox"/> Special Report <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Compliance Verification <input type="checkbox"/> POTW Permit Application
WW Full Scan + Permit	

23K0699



Sample Identification	# Cont	Grab/Comp	Matrix*	Location	Begin Sampled Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments
23K0699-03	1	G	W	Field Blank		12:11 11/16/23	(1) 40 mL Glass, PTFE lined septum Cool <6°C	Mercury 1631E	[A]	

* COLLECTED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPOSED AS A 4 PARTS

Δ COLLECTED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPOSED AS A 4 PARTS

□ COLLECTED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259 COMPOSED AS A 4 PARTS

Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location
<i>[Signature]</i>	11/17/23		see page 1		
Relinquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Location

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**

10273 Genard Rd, Houston, TX

Location: **EFFLUENT**

Sample No. **5338352**

Permit No. **5017**

Outfall: **2**

Scheduled Date: 11/17/2023

Sample Type: **COMP**

Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ **Yes** ☐ **No** If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure:

COMPOSITE TIME/DATE:

SAMPLE DETAILS:

Temp: **5.4**

GRAB TIME/DATE:

FIELD TESTS:

Begin: **8:00**

Split Sample: ☐ Yes ☒ No

Time: **11/17/23**

pH: **7.1**

End: **8:00**

of Bottles: 1 2 3 4 5 **6**

Date: **11/17/23**

☐ Paper, Lot #

Begin Date: **11/16/23**

Sample Volume: **800** ml

TRC **NA**, Lot #84032C

☐ Meter, S/N

End Date: **11/17/23**

Sample Interval: **Flow** min.

Temperature **5.4** °C, S/N

Autosampler Secured/Locked? ☒ **Yes** ☐ **No** ☐ **NA**

Sampler (Print): **JEFFREY FANELL**

Comments:

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5338352-001	Bisphenol A (ASTM D7065-11 or 625); Nonylphenol (1625 or ASTM D7065)		1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	2
5338352-002	Chromium, Trivalent (Cr3) (CALCULATE)				0
5338352-003	Chromium, Hexavalent (Cr+6) (218.6 or 3500 Cr-B)		500 mL HDPE, LDPE-Lined cap	Cool <6°C, (NH4)2SO4 buffer, NaOH to pH 9.3-9.7	1
5338352-006	Hexachlorophene (EPA 604.1)		1 L Amber Glass, PTFE lined cap	Cool <6°C	2
5338352-007	Metals POTW Effluent & Vanadium (EPA 200.8)		500 mL HDPE, LDPE-lined cap	Cool <6°C, HNO3 to pH <2	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☐ COH Wastewater Lab ☒ City Contract Lab: A&B

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

pH Strip Manufacturer: ☐ Lot #: ☐ Initial: ☐

Relinquished By: **Jeffrey Fanell** Date: **11/17/23** Time: **14:27**

Received By: **[Signature]** Date: **11/17/23** Time: **14:27**

Relinquished By: ☐ Date: ☐ Time: ☐

Received By: ☐ Date: ☐ Time: ☐

Relinquished By: ☐ Received By: ☐ Date: ☐ Time: ☐

* Delivered to Lab if Box is Checked



LABORATORY TEST RESULTS

Job ID : 23112088

Date 11/28/2023

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5338352

Job Sample ID: 23112088.19

Date Collected: 11/17/23

Sample Matrix Water

Time Collected: 08:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
SM 3500Cr B	Chromium, Hexavalent	<0.0005	mg/L	1	0.0005	0.00100		U	11/17/23 17:57	KTH
SM 3500Cr B	Chromium, Trivalent ²	0.0006	mg/L	1	0.0005	0.00100		J	11/27/23 16:54	KTH
EPA 200.8	Metals by ICP/MS									
	Aluminum	0.0531	mg/L	1	0.00046	0.00100			11/20/23 14:19	VK
	Antimony	0.00080	mg/L	1	0.00020	0.00050			11/20/23 14:19	VK
	Arsenic	0.00055	mg/L	1	0.00002	0.00025			11/20/23 14:19	VK
	Barium	0.0653	mg/L	1	0.00009	0.00050			11/20/23 14:19	VK
	Beryllium	<0.00002	mg/L	1	0.00002	0.00025		U	11/20/23 14:19	VK
	Cadmium	0.00005	mg/L	1	0.00005	0.00025		J	11/20/23 14:19	VK
	Chromium	0.00057	mg/L	1	0.00004	0.00025			11/20/23 14:19	VK
	Copper	0.00420	mg/L	1	0.00005	0.00050			11/20/23 14:19	VK
	Lead	0.00018	mg/L	1	0.00004	0.00025		J	11/20/23 14:19	VK
	Nickel	0.00214	mg/L	1	0.00008	0.00025			11/20/23 14:19	VK
	Selenium	0.00026	mg/L	1	0.00021	0.00100		J	11/20/23 14:19	VK
	Silver	<0.00005	mg/L	1	0.00005	0.00050		U	11/20/23 14:19	VK
	Thallium	<0.00002	mg/L	1	0.00002	0.00025		U	11/20/23 14:19	VK
	Vanadium	0.00100	mg/L	1	0.00002	0.00025			11/20/23 14:19	VK
	Zinc	0.0294	mg/L	1	0.00071	0.00200			11/20/23 14:19	VK
ASTM D7065-11	Bisphenol A ²	<5.00	ug/L	1.00		5.00		U	11/28/23 12:00	MSH
	Nonylphenol ¹	<5.00	ug/L	1.00	5.00	5.00		U	11/21/23 02:29	GM
	Terphenyl-d14(surr)	38.3	%	1.00		18-137			11/21/23 02:29	GM

ab-q212-0321

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



SPL
The Science of Sure

1
2

ABL2-G

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

Page 1 of 2

Project
1081599

Printed: 11/29/2023

5338352-006

RESULTS

Sample Results

2250219 **5338352-006**

Received: 11/21/2023

Non-Potable Water

Collected by: Client

A & B Labs

PO:

511116/23112088

Taken: 11/16/2023

08:00:00

		Prepared:	11/22/2023	10:24:12	Calculated	11/22/2023	10:24:12	CAL
Parameter	Results	Units	RL	Flags	CAS	Bottle		
z Organics Short Hold Surcharge	Verified							
EPA 604.1		Prepared:	1092166	11/22/2023	12:30:00	Analyzed	1092264	11/22/2023
Parameter	Results	Units	RL	Flags	CAS	Bottle		
z Hexachlorophene	<0.0000258	mg/L	0.0000258		70-30-4	03		

Sample Preparation

2250219 **5338352-006**

Received: 11/21/2023

11/16/2023

511116/23112088

		Prepared:	11/22/2023	10:24:12	Calculated	11/22/2023	10:24:12	CAL
z Environmental Fee (per Project)	Verified							
Cooler Return		Prepared:	11/22/2023	16:30:00	Analyzed	11/22/2023	16:30:00	MG3
z Return Cooler/No bottles Require	Returned							
EPA 604.1		Prepared:	1092166	11/22/2023	12:30:00	Analyzed	1092166	11/22/2023
Hexachlorophene Extraction	5/970	ml						01



Report Page 3 of 7

CF

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard Rd, Houston, TX

Location: **EFFLUENT**

Sample No. **5338352** Permit No. **5017** Outfall: **2** Scheduled Date: **11/17/2023**
Sample Type: **COMP** Sample Matrix: **Liquid**

SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure: _____

COMPOSITE TIME/DATE:	SAMPLE DETAILS: Temp: <u>5.4</u>	GRAB TIME/DATE:	FIELD TESTS:
Begin: <u>8:00</u>	Split Sample: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Time: _____	pH: _____
End: <u>8:00</u>	# of Bottles: 1 2 3 4 5 <u>5</u>	Date: <u>11/17/23</u> <u>N.A.</u>	<input type="checkbox"/> Paper, Lot # _____
Begin Date: <u>11/16/23</u>	Sample Volume: <u>800</u> ml	TRC _____, Lot # <u>84032C</u>	<input type="checkbox"/> Meter, S/N _____
End Date: <u>11/17/23</u>	Sample Interval: <u>Flow</u> min.	Temperature _____ °C, S/N _____	

Autosampler Secured/Locked? ☒ Yes ☐ No ☐ NA Sampler (Print): DEBBIE FARRELL

Comments: _____

*	Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
<input checked="" type="checkbox"/>	5338352-004	Carbaryl (EPA 632); Diuron (EPA 632)		1 L Amber Glass, PTFE lined cap	Cool <6°C	2
<input checked="" type="checkbox"/>	5338352-005	Herbicides (EPA 615 or SM 6640B)		1 L Amber Glass, PTFE lined cap	Cool <6°C	2
	LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: _____ COH Wastewater Lab ☒ City Contract Lab: Eurofins Xenco

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

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: [Signature] Date: 11/17/23 Time: 13:45

Received By: [Signature] Date: 11/17/23 Time: 13:45

Relinquished By: _____ Date: ____/____/____ Time: _____

Received By: _____ Date: ____/____/____ Time: _____

Relinquished By: _____ Received By: _____ Date: ____/____/____ Time: _____

* Delivered to Lab if Box is Checked

Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard Rd, Houston, TX

Location: **EFFLUENT**

Sample No. **5338352** Permit No. **5017** Outfall: **2** Scheduled Date: **11/17/2023**
Sample Type: **CMAN** Sample Matrix: **Liquid**
SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure:

COMPOSITE TIME/DATE:	SAMPLE DETAILS:	Temp:	GRAB TIME/DATE:	FIELD TESTS:
Begin: 7:12	Split Sample: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Time: 7:12	pH: N.A.
End: 22:59	# of Bottles: 0 1 2 3 4 5		Date: 11/17/23	<input type="checkbox"/> Paper, Lot #
Begin Date: 11/16/23	Sample Volume: 250 ml		TRC N.A. , Lot #84032C	<input type="checkbox"/> Meter, S/N
End Date: 11/16/23	Sample Interval: 300 min.		Temperature N.A. °C, S/N	

Autosampler Secured/Locked? ☐ Yes ☒ No ☒ NA Sampler (Print): **JOSEPH FAMELE Crescencio FAMELE**

Comments: **COLLECTED AS A 4 PARTS GRAB, 7:12, 12:11, 1722, 2259**

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
<input checked="" type="checkbox"/> 5338352-008	Phenol, Total (EPA 420.1)		1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☐ COH Wastewater Lab ☒ City Contract Lab: **A&B**

Seals Intact: ☐ Yes ☐ No 568 IR Thermometer S/N # 27910254 S/N # 29650075 Temp **14.27** °C Initial **14.27**

pH Strip Manufacturer: **11/17/23** Lot #: **14.27** Initial: **14.27**

Relinquished By: **[Signature]** Date: **11/17/23** Time: **14.27**

Received By: **[Signature]** Date: **11/17/23** Time: **14.27**

Relinquished By: **[Signature]** Date: **11/17/23** Time: **14.27**

Received By: **[Signature]** Date: **11/17/23** Time: **14.27**

Relinquished By: **[Signature]** Received By: **[Signature]** Date: **11/17/23** Time: **14.27**

* Delivered to Lab if Box is Checked

Client Sample Results

Client: City of Houston
Project/Site: 5338352 Westway EFFLUENT

Job ID: 860-61829-1
SDG: 5017_2

Client Sample ID: 5338352-004

Lab Sample ID: 860-61829-1

Date Collected: 11/17/23 08:00

Matrix: Water

Date Received: 11/17/23 15:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85		5.00	1.85	ug/L		11/22/23 12:40	12/01/23 04:21	1
Diuron	<0.0514		0.0900	0.0514	ug/L		11/22/23 12:40	12/01/23 04:21	1

Client Sample ID: 5338352-005

Lab Sample ID: 860-61829-2

Date Collected: 11/17/23 08:00

Matrix: Water

Date Received: 11/17/23 15:01

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000540		0.000200	0.0000540	mg/L		11/20/23 09:56	11/22/23 11:55	1
2,4,5-TP	<0.0000423		0.000200	0.0000423	mg/L		11/20/23 09:56	11/22/23 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	81	p	45 - 150				11/20/23 09:56	11/22/23 11:55	1

**LABORATORY TEST RESULTS**

Job ID : 23112088

Date 11/28/2023

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5338352

Job Sample ID: 23112088.16

Date Collected: 11/16/23

Sample Matrix Water

Time Collected: 22:59

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 420.4	Phenolics (Total Phenols)									
	Phenols	<0.0045	mg/L	1	0.0045	0.01		U	11/27/23 14:50	SKC

ab-q212-0321

Industrial Wastewater Service

CF

Analysis Request and Chain of Custody

Company Name: **Westway**
10273 Genard Rd, Houston, TX

Location: **EFFLUENT**

Sample No. **5338351** Permit No. **5017** Outfall: **2** Scheduled Date: **11/17/2023**
Sample Type: **Grab** Sample Matrix: **Liquid**
SAMPLE COLLECTED ☒ Yes ☐ No If No: ☐ No Discharge ☐ Quantity Not Sufficient
☐ Company Closed ☐ Equipment Failure:

COMPOSITE TIME/DATE:	SAMPLE DETAILS:	Temp:	GRAB TIME/DATE:	FIELD TESTS:
Begin: _____	Split Sample: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Time: 12:11	pH: _____
End: _____	# of Bottles: 1 2 3 4 5		Date: 11/16/23	<input type="checkbox"/> Paper, Lot # _____
Begin Date: _____	Sample Volume: 1000 ml		TRC _____, Lot #84032C	<input type="checkbox"/> Meter, S/N _____
End Date: _____	Sample Interval: 0 min.		Temperature _____ °C, S/N _____	
Autosampler Secured/Locked? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA			Sampler (Print): DESTROY FANELL	

Comments: _____

* Bottle #	Tests/Method	Analysis Requested	Sample Size/Container	Preservation	# of containers
5338351-009	Oil and Grease (Total) / HEM (EPA 1664)		1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	1
LIMS Comments					

CHAIN OF CUSTODY

Lab Delivered To: ☐ COH Wastewater Lab ☒ City Contract Lab: A&B

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

pH Strip Manufacturer: _____ Lot #: _____ Initial: _____

Relinquished By: _____ Date: **11/17/23** Time: **14:27**

Received By: _____ Date: **11/17/23** Time: **14:27**

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Received By: _____ Date: _____ Time: _____

* Delivered to Lab if Box is Checked

**LABORATORY TEST RESULTS**

Job ID : 23112088

Date 11/28/2023

Client Name: Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: 5338351

Job Sample ID: 23112088.14

Date Collected: 11/16/23

Sample Matrix Water

Time Collected: 12:11

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extractables									
	Oil & Grease	5.86	mg/L	1.15	1.61	2.88			11/20/23 08:30	SG

ab-q212-0321

Attachment 9

Facility Operators

Domestic Technical Report 1.0, Section 8

TPDES Permit Number WQ0010495139

Westway

Facility Operations Chain-of-Command

Title	Name	License Class	License Number	Expiration
Deputy Assistant Director:	Arturo Carillo	--	--	--
Assistant Operations Manager:	Rondrick Wallace	A	WW0054457	11/25/2024
Operations Section Chief:	Phillip Cain	A	WW0047091	3/06/2025
Plant Operator Supervisor:	Ricky Wolfe	B	WW0031091	7/13/2024
Senior Plant Operators:	Lola Jones (nee Robinson)	B	WW0057452	3/27/2026
	Shenell Bingham	B	WW0056474	8/29/2025
	Edward Hardy	B	WW0072221	4/03/2026
	Dale Singletary	B	WW0067930	8/20/2024

Attachment 10

WET Test Results

Domestic Worksheet 5.0, Section 1.
Domestic Worksheet 5.0, Section 3.

Summary of WET Tests

Westway
10495-139 TX0026875

Test Initiation Date	Species	Lethal Endpoint	Sublethal Endpoint
9/10/2019	<i>Ceriodaphnia dubia</i>	94	0
9/10/2019	<i>Pimephales promelas</i>	94	94
10/29/2019	<i>Ceriodaphnia dubia</i>	>100	59.73
11/13/2019	<i>Ceriodaphnia dubia</i>	>100	61.11
12/4/2019	<i>Ceriodaphnia dubia</i>	>100	>100
12/4/2019	<i>Pimephales promelas</i>	>100	>100
1/14/2020	<i>Ceriodaphnia dubia</i>	>100	>100
1/14/2020	<i>Pimephales promelas</i>	>100	>100
2/11/2020	<i>Ceriodaphnia dubia</i>	>100	>100
4/14/2020	<i>Ceriodaphnia dubia</i>	>100	>100
4/14/2020	<i>Pimephales promelas</i>	>100	>100
7/14/2020	<i>Ceriodaphnia dubia</i>	45.9	87.96
7/14/2020	<i>Pimephales promelas</i>	63.36	59.49
8/25/2020	<i>Ceriodaphnia dubia</i>	>100	>100
8/25/2020	<i>Pimephales promelas</i>	>100	>100
9/22/2020	<i>Ceriodaphnia dubia</i>	>100	>100
9/22/2020	<i>Pimephales promelas</i>	>100	>100
10/13/2020	<i>Ceriodaphnia dubia</i>	>100	>100
10/13/2020	<i>Pimephales promelas</i>	>100	>100
1/5/2021	<i>Ceriodaphnia dubia</i>	>100	>100
1/5/2021	<i>Pimephales promelas</i>	>100	>100
4/6/2021	<i>Ceriodaphnia dubia</i>	>100	>100
4/6/2021	<i>Pimephales promelas</i>	>100	>100
7/20/2021	<i>Ceriodaphnia dubia</i>	>100	>100
7/20/2021	<i>Pimephales promelas</i>	>100	>100
10/19/2021	<i>Ceriodaphnia dubia</i>	>100	>100
10/19/2021	<i>Pimephales promelas</i>	>100	>100
1/19/2022	<i>Ceriodaphnia dubia</i>	>100	>100
1/19/2022	<i>Pimephales promelas</i>	>100	>100
4/5/2022	<i>Ceriodaphnia dubia</i>	>100	>100

Test Initiation Date	Species	Lethal Endpoint	Sublethal Endpoint
4/5/2022	<i>Pimephales promelas</i>	>100	>100
7/19/2022	<i>Ceriodaphnia dubia</i>	>100	>100
7/19/2022	<i>Pimephales promelas</i>	>100	>100
10/11/2022	<i>Ceriodaphnia dubia</i>	>100	>100
10/11/2022	<i>Pimephales promelas</i>	>100	>100
1/18/2023	<i>Ceriodaphnia dubia</i>	22.22	18.25
1/18/2023	<i>Pimephales promelas</i>	>100	>100
3/2/2023	<i>Ceriodaphnia dubia</i>	<32	<32
3/28/2023	<i>Ceriodaphnia dubia</i>	>100	>100
4/19/2023	<i>Ceriodaphnia dubia</i>	>100	>100
5/16/2023	<i>Ceriodaphnia dubia</i>	>100	>100
6/14/2023	<i>Pimephales promelas</i>	>100	>100
9/19/2023	<i>Ceriodaphnia dubia</i>	>100	>100
9/19/2023	<i>Pimephales promelas</i>	>100	>100
12/5/2023	<i>Ceriodaphnia dubia</i>	>100	86.08
12/5/2023	<i>Pimephales promelas</i>	>100	>100

Attachment 11

Service Area Map

Domestic Worksheet 6.0, Section 1.E.

Westway Service Area

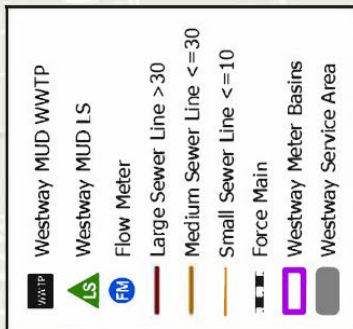
Service Area Zip Code: 77041

SIU: H-E-B Snack Plant

WESTWAY
M.U.D.

WW001

WESTWAY
M.U.D.
WW002



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



Attachment 12

Effluent Parameters Above the MAL

Domestic Worksheet 6.0, Section 2.C.

TPDES Permit Number WQ0010495139

Westway

Pollutants Above MAL

Additional page (page 1 of 1)

Pollutant	Concentration	MAL	Units	Date
Aluminum	53.1	2.5	ug/L	11/16/23
Arsenic	0.55	0.5	ug/L	11/16/23
Barium	65.3	3	ug/L	11/16/23
Dichlorobromemethane (Bromodichloromethane)	16.6	10	ug/L	11/16/23
Chloroform	67.2	10	ug/L	11/16/23
Copper	4.2	2	ug/L	11/16/23
Total Cyanide	10.1	10	ug/L	11/16/23
Nickel	2.14	2	ug/L	11/16/23
Nitrate-Nitrogen	8320	100	ug/L	11/16/23
Zinc	29.4	5	ug/L	11/16/23