

Administrative Package Cover Page

This file contains the following documents:

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



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

CITGO Refining and Chemicals Company L.P. (CN600127922) operates CITGO Corpus Christi Refinery East Plant (RN102555166), an oil refinery and chemical manufacturing facility. The facility is located at 1801 Nueces Bay Blvd. (East Plant) and 7350 IH-37 (West Plant), in Corpus Christi, Nueces County, Texas 78407 (East Plant) and 78409 (West Plant). This application requests a renewal of this permit, which authorizes an industrial wastewater discharge not to exceed a daily average of 3.5 million gallons per day or daily maximum of 6.2 million gallons per day via Outfall 001, an industrial wastewater discharge not to exceed a daily average of 1.6 million gallons per day or a daily maximum of 3.1 million gallons per day via Outfall 002, and intermittent stormwater with small volumes of non-process wastewater may be discharged through Outfalls 003, 004, 005, 006, 007, 008, and 009.

Discharges from the facility are expected to contain biochemical oxygen demand, total suspended solids, chemical oxygen demand, oil and grease, ammonia, sulfide, fluoride, phenolic compounds, chromium (total and hexavalent), enterococci (Outfall 002 only), residual chlorine (Outfall 001 only). For the stormwater outfalls (Outfalls 003-009), discharges are expected to contain total organic carbon and oil and grease. Additionally, Outfalls 003 and 009 are expected to contain benzene, toluene, ethylbenzene, total xylenes and total chromium and Outfall 009 is expected to contain copper. Process wastewater, cooling tower blowdown, boiler blowdown, utility wastewater, and process area stormwater runoff are discharged through Outfalls 001 and 002. Ballast water and recovered groundwater may be discharged to Outfall 001 and treated domestic wastewater is discharged through Outfalls 003, 004, 005, 006, 007, 008, and 009. Wastewaters discharged through either Outfall 001 or 002 are treated by a coalescing plate interceptor, flocculation, dissolved air flotation, pre-aeration basins, aerobic digesters, and clarifiers.

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

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

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

CITGO Refining and Chemicals Company L.P. (CN600127922) opera CITGO Corpus Christi Refinery East Plant (RN102555166), una refinería de petróleo y una instalación de fabricación de productos químicos. La instalación está ubicada en 1801 Nueces Bay Blvd. (Planta Este) y 7350 IH-37 (Planta Oeste), en Corpus Christi, Condado de Nueces, Texas 78407 (Planta Este) y 78409 (Planta Oeste). Esta solicitud solicita una renovación de este permiso, que autoriza que una descarga de aguas residuales industriales no exceda un promedio diario de 3.5 millones de galones por día a través del Emisario 001, una descarga de aguas residuales industriales que no exceda un promedio diario de 1.6 millones de galones por día a través del Emisario 002, y aguas pluviales intermitentes con pequeños volúmenes de aguas residuales no procesables descargadas desde el Emisarios 003, 004, 005, 006, 007, 008 y 009.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno, sólidos suspendidos totales, demanda química de oxígeno, aceite y grasa, amoníaco, sulfuro, fluoruro, compuestos fenólicos, cromo (total y hexavalente), enterococos (solo Emisario 2) y cloro residual (solo Emisario 1). Para los emisarios de aguas pluviales (Emisarios 003-009), se espera que las descargas contengan carbono orgánico total y aceite y grasa. Además, se espera que los Emisarios 003 y 009 contengan benceno, tolueno, etilbenceno, xilenos totales y cromo total, y se espera que el Emisario 009 contengan cobre. Las aguas residuales de proceso, la purga de la torre de enfriamiento, la purga de la caldera, las aguas residuales de los servicios públicos y la escorrentía de aguas pluviales del área de proceso se descargan a través de los Emisarios 001 y 002. El agua de lastre y las aguas subterráneas recuperadas pueden descargarse en el Emisario 001 y las aguas residuales domésticas tratadas se descargan a través del Emisario 002. Las aguas pluviales con pequeños volúmenes de aguas residuales no procesadas se descargan a través de los Emisarios 003, 004, 005, 006, 007, 008 y 009. Aguas residuales descargadas a través de los Emisarios 001 o 002 están tratado por un interceptor de placas coalescentes, floculación, flotación por aire disuelto, cuencas de preaireación, digestores aeróbicos y clarificadores.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0000467000

APPLICATION. CITGO Refining and Chemicals Company L.P., P.O. Box 9176, Corpus Christi, Texas 78469, which owns a petroleum refinery complex that produces petroleum and petrochemical products facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000467000 (EPA I.D. No. TX0006211) to authorize the discharge of treated wastewater and stormwater at a volume not to exceed a daily average flow of 3,500,000 gallons per day via Outfall 001 and 1,600,000 via Outfall 002, and at an intermittent and flow-variable rate via Outfalls 003, 004, 005, 006 007, 008 and 009. The facility is located at 1801 Nueces Bay Boulevard, near the city of Corpus Christi, in Nueces County, Texas 78407. The discharge route is from the plant site via Outfalls 001, 002, 008 and 009 directly to Corpus Christi Inner Harbor; via Outfalls 003 and 004 to Oak Park ditch; via Outfall 005 to an unnamed tributary of Tule Lake; thence to Tule Lake; via Outfall 006 to an unnamed ditch; thence to Tule Lake; and via Outfall 007 to an unnamed tributary; thence all outfalls to Corpus Christi Inner Harbor. TCEQ received this application on September 5, 2024. The permit application will be available for viewing and copying at La Ratama Public Library, Reference Desk, 805 Comanche Street, Corpus Christi, in Nueces County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.426388,27.81&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</u>. El aviso de idioma alternativo en español está disponible en <u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</u>.

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 <u>www.tceq.texas.gov/goto/cid</u>. 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 <u>https://www14.tceq.texas.gov/epic/eComment/</u>, 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 CITGO Refining and Chemicals Company L.P. at the address stated above or by calling Ms. Zulema Garcia, Group Leader, at 361-844-4163.

Issuance Date: October 24, 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. WQ0000467000

SOLICITUD. CITGO Refining and Chemicals Company, L.P. P.O. Box 9176, Corpus Christi, Texas 78469, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0000467000 (EPA I.D. No. TX 0006211) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 3,500,000 galones por día a través de los Emisarios 001 y 1,600,000 galones por día a través de los Emisarios 002 y a un ritmo intermitente y de flujo variable a través de los Emisarios 003, 004, 005, 006, 007, 008 y 009. La planta está ubicada en 1801 Nueces Bay Boulevard, cerca de la cuidad de Corpus Christi en el Condado de Nueces, Texas 78407. La ruta de descarga es del sitio de la planta hasta los emisarios 001, 002, 008 y 009 directamente al puerto interior de Corpus Christi; a través de los emisarios 003 y 004 hasta la zanja de Oak Park; a través del emisario 005 hasta un afluente sin nombre del lago Tule; de allí al lago Tule; a través del emisario 006 hasta una zanja sin nombre; de allí al lago Tule; y a través del emisario 007 hasta un afluente sin nombre; desde allí todos los emisarios hasta el puerto interior de Corpus Christi. La TCEQ recibió esta solicitud el 5 de septiembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la Biblioteca Pública La Ratama, Mostrador de Referencia, 805 Comanche Street, Corpus Christi, en el Condado de Nueces, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud, incluidas las actualizaciones, y los avisos asociados están disponibles electrónicamente en la siguiente página web:

<u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</u>. 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=-97.426388,27.81&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 contencios es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <u>http://www14.tceq.texas.gov/epic/eComment/</u> 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 a la dirección indicada arriba o llamando a Zulema Garcia al 361-844-4163.

Fecha de emission 24 de octubre de 2024

CITGO Corpus Christi Refinery

1802 Nueces Bay Blvd. Corpus Christi, Texas 78407



September 24, 2024

CERTIFIED LETTER 7016 0910 0001 3081 4407

Abesha Michael Texas Commission on Environmental Quality Application Review & Processing Team, MC 148 Water Quality Support Section Water Quality Division P.O. Box 13087 (MC-148) Austin, TX 78711-3087

Re: CITGO Refining and Chemicals Company L.P. Response to Administrative Notice of Deficiency dated September 13, 2024 CITGO Corpus Christi Refinery East Plant WQ0000467000 (EPA I.D. TX0006211) CN No. 600127922 / RN No. 102555166

Dear Ms. Michael:

CITGO Refining and Chemicals Company L.P. (CITGO) is pleased to submit this response to your administrative notice of deficiency dated September 13, 2024, for the Texas Pollutant Discharge Elimination System (TPDES) permit application that was submitted September 5, 2024. We are responding to the numbered comments/deficiencies on an item-by-item basis below:

- 1. **Item 11.H on page 9 of the administrative report**. The list of counties within 100 statute miles downstream has been completed. A replacement page is provided in **Attachment A**.
- 2. Portion of the Notice of Receipt of Application. The portion of the Notice of Receipt of Application provided was reviewed. The date of receipt of the application (March 7, 2024) is incorrect. The application was submitted via email on September 5, 2024; the hard copy of the application was received on September 9, 2024.
- 3. **Spanish NORI.** An electronic copy, in Microsoft[®] Word, of the Spanish NORI translation was transmitted to <u>WQDecopy@TCEQ.Texas.gov</u> on September 24, 2024. A copy of the translation is included in **Attachment B**.

Should you have any questions or require additional information, please contact me at (361) 844-4163.

Sincerely Zulema Garcia

Group Leader – Water, Waste, Remediation and Transportation CITGO Refining and Chemicals Company L.P.

Enclosures

cc: Veronica Fuentes – CITGO Nancy L. Koch, P.E. – Weston Solutions, Inc.

ATTACHMENT A

REPLACEMENT ADMINISTRATIVE REPORT PAGE 9

c. Is the location of the sewage sludge disposal site in the existing permit accurate?
 □ Yes □ No or New Permit

If no, or a new application, provide an accurate location description: Not Applicable

d. Are the point(s) of discharge in the existing permit correct?

🖾 Yes 🛛 No or New Permit

If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>

e. Are the discharge route(s) in the existing permit correct?

🖾 Yes 🛛 No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: <u>Click to enter</u> <u>text.</u>

- f. City nearest the outfall(s): Corpus Christi
- g. County in which the outfalls(s) is/are located: Nueces
- h. 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, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: <u>Click to enter text.</u>

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: <u>Nueces</u>

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

□ Yes No or New Permit □ <u>Click to enter text.</u>

If no, or a new application, provide an accurate location description: Not Applicable

- j. City nearest the disposal site: Not Applicable
- k. County in which the disposal site is located: Not Applicable
- 1. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: <u>Not Applicable</u>
- m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Not Applicable</u>

ATTACHMENT B

SPANISH NORI

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. WQ0000467000

SOLICITUD. CITGO Refining and Chemicals Company, L.P. P.O. Box 9176, Corpus Christi, Texas 78469, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0000467000 (EPA I.D. No. TX 0006211) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 5,100,000 galones por día a través de los Emisarios 001 y 002 y a un ritmo intermitente y de flujo variable a través de los Emisarios 003, 004, 005, 006, 007, 008 y 009. La planta está ubicada en 1801 Nueces Bay Boulevard, cerca de la cuidad de Corpus Christi en el Condado de Nueces, Texas. La ruta de descarga es del sitio de la planta hasta los emisarios 001, 002, 008 y 009 directamente al puerto interior de Corpus Christi; a través de los emisarios 003 y 004 hasta la zanja de Oak Park; a través del emisario 005 hasta un afluente sin nombre del lago Tule; de allí al lago Tule; a través del emisario 006 hasta una zanja sin nombre; de allí al lago Tule; y a través del emisario 007 hasta un afluente sin nombre; desde allí todos los emisarios hasta el puerto interior de Corpus Christi. La TCEO recibió esta solicitud el 6 de septiembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la Biblioteca Pública La Ratama, Mostrador de Referencia, 805 Comanche Street, Corpus Christi, en el Condado de Nueces, Texas, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.426388,27.81&level=18

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

comentarios públicos.

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO

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

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <u>http://www14.tceq.texas.gov/epic/eComment/</u> 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 a la dirección indicada arriba o llamando a Zulema Garcia al 361-844-4163.

Fecha de emission _____ [Date notice issued]

CITGO Corpus Christi Refinery

1802 Nueces Bay Blvd. Corpus Christi, Texas 78407

September 4, 2024



Texas Commission on Environmental Quality Water Quality Division (MC-148) P.O. Box 13087 12100 Park 35 Circle, Building F Austin, TX 78711-3087

Via: WQDecopy@tceq.texas.gov CERTIED MAIL: 7016 0910 0001 3081 4506

Re: Transmittal of TPDES Renewal Application WQ0000467000 CN600127922: CITGO Refining and Chemicals Company L.P. RN102555166: CITGO Corpus Christi East Refinery

Dear Sir or Madam:

CITGO Refining and Chemicals Company L.P. (CITGO) is hereby submitting the attached Texas Pollutant Discharge Elimination System (TPDES) renewal application for the above-referenced regulated entity located in Corpus Christi, Nueces County, Texas. An original and two copies are being transmitted in addition to the electronic copy via WQDecopy@tceq.texas.gov.

Payment for the permit application fee has been made by Epay; documentation is included in the application.

Should you have any questions regarding this submittal, please contact me at 361-844-4163 or via email at zgarcia@citgo.com.

Sincerely,

ajcia

Zulema Garcia Group Leader – Water, Waste, Remediation and Transportation CITGO Refining and Chemicals Company L.P.

Enclosure or Attachments

cc: Veronica Fuentes – CITGO Manager of Environmental Affairs (electronic) Nancy L. Koch, P.E. – Weston Solutions, Inc. (electronic) Texas Pollutant Discharge Elimination System Application for Renewal of TPDES Permit No. WQ0000467000

Prepared For:



CITGO Refining and Chemicals Company L.P. Corpus Christi Refinery

Prepared by:



August 2024

STATION MENTAL QUILT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: <u>CITGO Refining and Chemicals Company L.P.</u> PERMIT NUMBER (If new, leave blank): WQ00<u>00467000</u> **Indicate if each of the following items is included in your application.**

	Y	Ν		Y	Ν
Administrative Report 1.0	\boxtimes		Worksheet 8.0		\boxtimes
Administrative Report 1.1		\boxtimes	Worksheet 9.0		\boxtimes
SPIF	\boxtimes	□ E	Worksheet 10.0		\boxtimes
Core Data Form	\boxtimes	\square B	Worksheet 11.0		\boxtimes
Public Involvement Plan Form	\boxtimes		Worksheet 11.1		\boxtimes
Plain Language Summary	\boxtimes	□ C	Worksheet 11.2		\boxtimes
Technical Report 1.0	\boxtimes		Worksheet 11.3		\boxtimes
Worksheet 1.0	\boxtimes		Original USGS Map	\boxtimes	\Box D
Worksheet 2.0	\boxtimes		Affected Landowners Map		\boxtimes
Worksheet 3.0		\bowtie	Landowner Disk or Labels		\boxtimes
Worksheet 3.1		\boxtimes	Flow Diagram	\boxtimes	\Box H
Worksheet 3.2		\boxtimes	Site Drawing	\boxtimes	□ G
Worksheet 3.3		\boxtimes	Original Photographs		\boxtimes
Worksheet 4.0	\boxtimes		Design Calculations		\boxtimes
Worksheet 4.1		\boxtimes	Solids Management Plan		\boxtimes
Worksheet 5.0		\boxtimes	Water Balance	\boxtimes	\Box H
Worksheet 6.0		\boxtimes			
Worksheet 7.0		\bowtie			

For TCEQ Use Only Segment Number _____County _____County _____ Expiration Date _____Region _____Region _____ Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (<u>TCEQ Form-20893 and 20893-inst</u>¹).

Item 1. Application Information and Fees (Instructions, Page 26)

a.	Complete each field with the requested information, if applicable.
	Applicant Name: <u>CITGO Refining and Chemicals Company L.P.</u>
	Permit No.: <u>WQ0000467000</u>
	EPA ID No.: <u>TX0006211</u>
	Expiration Date: <u>March 9, 2025</u>
b.	Check the box next to the appropriate authorization type.
	Industrial Wastewater (wastewater and stormwater)
	□ Industrial Stormwater (stormwater only)
c.	Check the box next to the appropriate facility status.
	\boxtimes Active \square Inactive
d.	Check the box next to the appropriate permit type.
	☑ TPDES Permit □ TLAP □ TPDES with TLAP component
e.	Check the box next to the appropriate application type.
	□ New
	\square Renewal with changes \boxtimes Renewal without changes
	\square Major amendment with renewal \square Major amendment without renewal
	Minor amendment without renewal
	□ Minor modification without renewal
f.	If applying for an amendment or modification, describe the request: <u>Click to enter text.</u>
Foi	r TCEQ Use Only
0	

Segment Number	rCounty
Expiration Date .	Region
	~

¹ <u>https://www.tceq.texas.gov/publications/search_forms.html</u>

TCEQ-10411 (01/08/2024) Industrial Wastewater Application Administrative Report

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines	□ \$350	□ \$350	□ \$315	□ \$150
(40 CFR Parts 400-471)				
Minor facility subject to EPA categorical effluent guidelines	□ \$1,250	□ \$1,250	□ \$1,215	□ \$150
(40 CFR Parts 400-471)				
Major facility	N/A 2	□ \$2,050	⊠ \$2,015	□ \$450

h. Payment Information

Mailed

Check or money order No.: Click to enter text.

Check or money order amt.: <u>Click to enter text.</u>

Named printed on check or money order: Click to enter text.

Epay

Voucher number: <u>718070, 718071</u>

Copy of voucher attachment: $\underline{\mathbf{A}}$

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: <u>CN600127922</u>

Note: Locate the customer number using the <u>TCEQ's Central Registry Customer Search</u>³.

b. Legal name of the entity (applicant) applying for this permit: <u>CITGO Refining and Chemicals</u> <u>Company L.P.</u>

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: <u>Mr.</u> Full Name (Last/First Name): John R. Vining

Title: Vice President and General Manager, Corpus Christi RefineryCredential: Click toenter text.

d. Will the applicant have overall financial responsibility for the facility?

² All facilities are designated as minors until formally classified as a major by EPA.

³ <u>https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch</u>

TCEQ-10411 (01/08/2024) Industrial Wastewater Application Administrative Report

🖾 Yes 🛛 No

Note: The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page 27)

Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text.

Note: The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): <u>CNClick to enter text.</u>

Note: Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Click to enter text.Full Name (Last/First Name): Click to enter text.Title: Click to enter text.Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

□ Yes □ No

Note: The entity with overall financial responsibility for the facility must apply as a coapplicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and coapplicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: <u>**B**</u>

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both.

a. \boxtimes Administrative Contact . \boxtimes Technical Contact

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Nancy L. Koch</u>

Title: Project ManagerCredential: P.E.

Organization Name: <u>Weston Solutions, Inc.</u>

Mailing Address: 5301 Southwest Parkway, Suite 450City/State/Zip: Austin, TX 78735Phone No: 512-651-7104Email: Nancy.Koch@westonsolutions.com

b. \boxtimes Administrative Contact \boxtimes Technical Contact

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Zulema Garcia</u>

Title: Group LeaderCredential: Click to enter text.

Organization Name: <u>CITGO Refining and Chemicals Company L.P.</u> TCEQ-10411 (01/08/2024) Industrial Wastewater Application Administrative Report Mailing Address: <u>P.O. Box 9176</u>

City/State/Zip: Corpus Christi, TX 78469

Phone No: <u>361-844-4163</u> Email: <u>zgarcia@citgo.com</u>

Attachment: <u>Click to enter text.</u>

Item 6. Permit Contact Information (Instructions, Page 28)

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

- a. Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Veronica Fuentes</u>
 Title: <u>Manager of Environmental Affairs</u> Credential: <u>Click to enter text.</u>
 Organization Name: <u>CITGO Refining and Chemicals Company L.P.</u>
 Mailing Address: <u>P.O. Box 9176</u> City/State/Zip: <u>Corpus Christi, TX 78469</u>
 Phone No: <u>361-844-4533</u> Email: <u>vfuente@citgo.com</u>
- b. Prefix: <u>Mr.</u> Full Name (Last/First Name): <u>Kevin Kenall</u>
 Title: <u>HSSE Manager</u> Credential: <u>Click to enter text.</u>
 Organization Name: <u>CITGO Refining and Chemicals Company L.P.</u>
 Mailing Address: <u>P.O. Box 9176</u> City/State/Zip: <u>Corpus Christi, TX 78469</u>
 Phone No: <u>361-844-5314</u> Email: <u>kkenall@citgo.com</u>

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for 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 (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Ms. Full Name (Last/First Name): Zulema Garcia

Title: Group LeaderCredential: Click to enter text.

Organization Name: <u>CITGO Refining and Chemicals Company L.P.</u>

Mailing Address: P.O. Box 9176

City/State/Zip: Corpus Christi, TX 78469

Phone No: <u>361-844-4163</u> Email: <u>zgarcia@citgo.com</u>

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Zulema Garcia</u>

Title: Group LeaderCredential: Click to enter text.

Organization Name: <u>CITGO Refining and Chemicals Company L.P.</u>

Item 9. Notice Information (Instructions, Pages 28)

- a. Individual Publishing the Notices
 Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Zulema Garcia</u>
 Title: <u>Group Leader</u> Credential: <u>Click to enter text.</u>
 Organization Name: <u>CITGO Refining and Chemicals Company L.P.</u>
 Mailing Address: <u>P.O. Box 9176</u> City/State/Zip: <u>Corpus Christi, TX 78469</u>
 Phone No: <u>361-844-4163</u> Email: <u>zgarcia@citgo.com</u>
- b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)
 - E-mail: <u>zgarcia@citgo.com</u>
 - □ Fax: <u>Click to enter text.</u>
 - □ Regular Mail (USPS)

Mailing Address: <u>Click to enter text.</u>

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

c. Contact in the Notice

Prefix: <u>Ms.</u> Full Name (Last/First Name): <u>Zulema Garcia</u>

Title: Group LeaderCredential: Click to enter text.

Organization Name: CITGO Refining and Chemicals Company L.P.

Phone No: <u>361-844-4163</u> Email: <u>zgarcia@citgo.com</u>

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: <u>La Ratama Public Library</u> Location within the building: <u>Reference</u> <u>Desk</u>

Physical Address of Building: 805 Comanche Street

City: <u>Corpus Christi</u> County: <u>Nueces</u>

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.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is 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 Item 8 (Regulated Entity and Permitted Site Information.)

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 □ N/A

- 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? <u>Spanish</u>
- f. Plain Language Summary Template Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: <u>C</u>
- g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: N/A

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

- a. TCEQ issued Regulated Entity Number (RN), if available: <u>RN102555166</u> **Note:** If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Searche TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.
- b. Name of project or site (the name known by the community where located): <u>CITGO Corpus</u> <u>Christi Refinery East Plant</u>
- c. Is the location address of the facility in the existing permit the same?

 \boxtimes Yes \square No \square N/A (new permit)

Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

d. Owner of treatment facility:

Prefix: <u>Click to enter text.</u>	Full Name (Last/Fir	st Name): <u>Click to en</u> t	ter text.	
or Organization Name: <u>CITGO Refinery and Chemicals Company L.P.</u>				
Mailing Address: <u>P.O. Box 91</u>	<u>76</u>	City/State/Zip: <u>Corp</u>	ous Christi, TX 78469	
Phone No: <u>361-844-4533</u>	Email: <u>vfuente@cit</u> g	<u>{o.com</u>		
Our probin of facility Du	blia 🛛 Drivata		🗆 Eodoral	

e. Ownership of facility: \Box Public \Box Private \Box Both \Box Federal

f. Owner of land where treatment facility is or will be: <u>CITGO Refining and Chemicals</u> <u>Company L.P.</u>

Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>

or Organization Name: <u>Click to enter text.</u>

Mailing Address: P.O. Box 9176 City/State/Zip: Corpus Christi, TX 78469

Phone No: <u>361-844-4533</u> Email: <u>vfuente@citgo.com</u>

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: <u>Click to enter text.</u>

g. Owner of effluent TLAP disposal site (if applicable): Not Applicable

Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>

or Organization Name: Click to enter text.

Mailing Address: <u>Click to enter text.</u>

Phone No: <u>Click to enter text</u>. Email: <u>Click to enter text</u>.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: <u>Click to enter text.</u>

h. Owner of sewage sludge disposal site (if applicable):

Prefix: <u>Click to enter text.</u> Full Name (Last/First Name): <u>Click to enter text.</u>

or Organization Name: Not Applicable

Mailing Address: <u>Click to enter text.</u>

City/State/Zip: <u>Click to enter text.</u>

City/State/Zip: Click to enter text.

Phone No: <u>Click to enter text.</u> Email: <u>Click to enter text.</u>

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: <u>Click to enter text.</u>

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

- a. Is the facility located on or does the treated effluent cross Native American Land? □ Yes ⊠ No
- b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.
 - ⊠ One-mile radius
 - Applicant's property boundaries
 - ⊠ Labeled point(s) of discharge
 - Effluent disposal site boundaries
 - Sewage sludge disposal site

- Three-miles downstream information
- \boxtimes Treatment facility boundaries
- Highlighted discharge route(s)
- □ All wastewater ponds
- New and future construction

Attachment: <u>D</u>

c. Is the location of the sewage sludge disposal site in the existing permit accurate?
 □ Yes □ No or New Permit

If no, or a new application, provide an accurate location description: <u>Not Applicable</u>

d. Are the point(s) of discharge in the existing permit correct?

 \boxtimes Yes \square No or New Permit

If no, or a new application, provide an accurate location description: <u>Click to enter text.</u>

e. Are the discharge route(s) in the existing permit correct?

🖾 Yes 🛛 No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: <u>Click to enter</u> <u>text.</u>

- f. City nearest the outfall(s): Corpus Christi
- g. County in which the outfalls(s) is/are located: <u>Nueces</u>
- h. 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, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: <u>Click to enter text.</u>

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: <u>Click to enter text.</u>

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

□ Yes No or New Permit □ <u>Click to enter text.</u>

If no, or a new application, provide an accurate location description: <u>Not Applicable</u>

- j. City nearest the disposal site: <u>Not Applicable</u>
- k. County in which the disposal site is located: <u>Not Applicable</u>
- l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: <u>Not Applicable</u>
- m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Not Applicable</u>

Item 12. Miscellaneous Information (Instructions, Page 33)

a. 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: <u>Click to enter text.</u>

b. Do you owe any fees to the TCEQ?

🗆 Yes 🖾 No

If yes, provide the following information: Account no.: <u>Click to enter text.</u> Total amount due: <u>Click to enter text.</u>

c. Do you owe any penalties to the TCEQ?

🗆 Yes 🖾 No

If yes, provide the following information: Enforcement order no.: <u>Click to enter text.</u> Amount due: <u>Click to enter text.</u>

Item 13. Signature Page (Instructions, Page 33)

Permit No: <u>WQ0000467000</u>

Applicant Name: CITGO Refining and Chemicals Company L.P.

Certification: I, John R. Vining, 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): John R. Vining

Signatory title: Vice President and General Manager Corpus Christi Refinery

Signature:	(Use blue i	ink)		Date:	914/24
Subscribed and	Sworn to before a	me by the said	a Sth	n P. Vir	Ding
on this	42		_ day of _	Septemb	er , 20 24.
My commission	expires on the	1012	_ day of _	March	, 20 24
Notary Public				[SEAL]	TARY PURAL
County, Texas					STATES SOLUTION
Note: <i>If co-appli</i> page.	icants are necessa	ry, each entit	y must su	bmit an origin	nal, separate and har une

INDUSTRIAL WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: <u>E</u>

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u>¹ available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

CITGO Refining and Chemicals Company L.P. owns and operates a petroleum refinery complex for producing petroleum products (gasoline, fuel oils, etc.) and petrochemical products which account for less than 15 percent of total production (cyclohexane, cumene, benzene, toluene, xylene, etc.). SIC Codes correspond to 2911 and 5171. The complex is situated on approximately 890 acres along the south bank of the Corpus Christi Ship Channel, and it produces on average 100,000 barrels per day (bpd) of gasoline; the average crude capacity is 167,000 bpd. The complex consists of the East Plant and the West Plant, which are located approximately 5 miles apart. Associated with the refinery complex are the Deep Sea Terminal and the Port Avenue terminal, each of which has their own TPDES permit.

b. Describe all wastewater-generating processes at the facility.

See Attachment F.

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

1

<u>https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_st</u>eps.html

Materials List

Raw Materials	Intermediate Products	Final Products
Crude Oil (no CAS)	Naphtha (CAS 64741-63-5)	Liquid Petroleum Gas (CAS 115-07-1)
	Gas Oil (CAS 64742-79-6)	#2 Fuel Oil (CAS 68476-30-2)
	Isobutylene (CAS 115-11-7)	Gasoline (CAS 68606-11-1)
	Benzene (CAS 71-43-2)	Sulfur (CAS 7704-34-9)
	Propylene (CAS 115-07-1)	Cumene (CAS 98-82-8)
	Hydrogen (CAS 1333-74-0)	Cyclohexane (CAS 110-82-7)
		Toluene (CAS 108-88-3)
		Xylene (CAS 1330-20-7)
		Petroleum Coke (CAS 64741-79-3)

Attachment: Click to enter text.

- d. Attach a facility map (drawn to scale) with the following information:
 - Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
 - The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: <u>G</u>

- e. Is this a new permit application for an existing facility?
 - 🗆 Yes 🖾 No

If yes, provide background discussion: Click to enter text.

- f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.
 - 🖾 Yes 🖾 No

List source(s) used to determine 100-year frequency flood plain: <u>East Plant's wastewater</u> <u>treatment plant (WWTP) is within the 100-year floodplain; West Plant's WWTP is not. West Plant</u> <u>FEMA Maps 48355C0285G, 48355C0305G, 48355C0300G and 483550315G (all 10/13/2022); East</u> <u>Plant FEMA Maps 48355C0310G (where treatment plant is located) and 48355C0320G (remainder</u> <u>of East Plant) (all 10/13/2022).</u>

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: <u>Protective measures</u> consist of shutting down the wastewater treatment system prior to a storm surge. The 1% Annual elevation is 9 feet.

Attachment: Click to enter text.

- g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?
 - \Box Yes \Box No \boxtimes N/A (renewal only)
- h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?
 - 🗆 Yes 🗆 No

If **yes**, provide the permit number: Click to enter text.

If **no**, provide an approximate date of application submittal to the USACE: Click to enter text.

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

East Plant process wastewater (including flows such as ballast water and benzene stripping bottoms) flows through a Coalescing/Corrugated Plate Interceptor (CPI) to separate out oil, which is sent to skimmed oil tanks. The water from the CPI's combines with process area stormwater and goes to two equalizations tanks. From equalization, a flocculant is added in the mix tank, and then it goes to the dissolved air floatation (DAF) unit, where most solids are removed and directed to tanks prior to the coker. From the DAF, wastewater goes through the pre-aeration basin, aerobic basins, and a final clarifier before discharge through Outfall 001. Solids from the clarifier are routed to the Bug Pond, then to either the coker or off-site disposal. No sanitary waste is generated at the East Plant. West Plant process wastewater is the same as the East Plant up through the DAF unit. After the West Plant DAF, water from the sanitary treatment plant and the aerobic digester is combined with the DAF effluent before entering the aerobic basins. From the aerobic basins, water goes through a mixed liquor sump, then to the final clarifiers, from where it is discharged via Outfall 002. Sludge from the clarifiers goes to an aerobic digester. Sludge from the West Plant sanitary system either goes to the coker or for off-site disposal. No treatment systems are employed for the stormwater outfalls 003 - 009.

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: <u>H</u>

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

🖾 Yes 🗆 No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a** - **3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a – 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	T, C			
Associated Outfall Number	N/A			
Liner Type (C) (I) (S) or (A)	I			
Alt. Liner Attachment Reference				
Leak Detection System, Y/N	N			
Groundwater Monitoring Wells, Y/N	Not associated with Pond. Monitor wells are used for detection monitoring in the vicinity			
Groundwater Monitoring Data Attachment	N/A			
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	unknown			
Length (ft)	275			

Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Width (ft)	210			
Max Depth From Water Surface (ft), Not Including Freeboard	Not available			
Freeboard (ft)	1			
Surface Area (acres)	1.3			
Storage Capacity (gallons)	No pond design to determine			
40 CFR Part 257, Subpart D, Y/N	Ν			
Date of Construction	NA			

Attachment: Click to enter text.

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

- b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.
 - 1. Liner data
 - □ Yes □ No □ Not yet designed
 - 2. Leak detection system or groundwater monitoring data
 - □ Yes □ No □ Not yet designed
 - 3. Groundwater impacts
 - □ Yes □ No □ Not yet designed

NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal highwater table in the shallowest water-bearing zone.

Attachment: Click to enter text.

For TLAP applications: Items 3.c - 3.e are not required, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	27.814992	97.422186
002	27.822778	97.489722
003	27.813333	97.425556
004	27.812778	97.425556
005	27.813861	97.488747
006	27.818047	97.502156
007	27.813986	97.475969
008	27.814933	97.422325
009	27.815868	97.423061

Outfall Longitude and Latitude

Outfall Location Description

Outfall No.	Location Description
001	After final clarifier prior to entering Corpus Christi Inner Harbor (East Plant)
002	After final clarifier prior to entering Corpus Christi Inner Harbor (West Plant)
003	At the confluence of a railroad ditch and Oak Park Ditch
004	At the entrance of a 48-inch diameter corrugated steel pipe
005	Where the discharge enters the stormwater collection center
006	Where the discharge enters the stormwater collection center
007	Where the discharge enters the stormwater collection center
008	Where the discharge enters the stormwater collection center
009	Corpus Christi Inner Harbor near the Dock

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point
002	Chlorine residual and Enterococci sampling point is after the chlorine contact chamber of the sanitary wastewater treatment plant.

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	3.5	6.2	3.5	6.2	Permitted
002	1.6	3.1	1.6	3.1	Permitted
003	Report	Report	Report	Report	Permitted
004	Report	Report	Report	Report	Permitted
005	Report	Report	Report	Report	Permitted
006	Report	Report	Report	Report	Permitted
007	Report	Report	Report	Report	Permitted
008	Report	Report	Report	Report	Permitted
009	Report	Report	Report	Report	Permitted

Outfall Discharge - Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Weir
002	Y	N	Weir
003	N	Y	None
004	N (typically)	Y	None
005	N	Y	None
006	N	Y	None
007	N	Y	None
008	N	Y	None
009	Y	N	Ultrasonic

Outfall Discharge - Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	N	Y	N	24	31	12
002	N	Y	N	24	31	12
003	Y	N	N	Variable	Variable	Variable
004	Y	Ν	N	Variable	Variable	Variable

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
005	Y	N	Ν	Variable	Variable	Variable
006	Y	N	N	Variable	Variable	Variable
007	Y	N	N	Variable	Variable	Variable
008	Y	N	N	Variable	Variable	Variable
009	Y	Ν	Ν	Variable	Variable	Variable

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Process wastewater	1.044	41
Cooling tower blowdown	0.562	22
Boiler blowdown	0.022	1
Utility wastewater	0.439	17
Stormwater runoff (annual average)	0.381	15
Ballast water and recovered groundwater	0.086	3

Outfall No. 002

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Process wastewater	0.346	61
Cooling tower blowdown	0.088	15
Boiler blowdown	0.058	10
Utility wastewater	0.001	0
Stormwater runoff (annual average)	0.065	11
Domestic Sewage	0.014	2

Outfall No. 003

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Cooling tower blowdown	Variable	< 1

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Steam condensate	Variable	<1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

Attachment: I

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

- a. Indicate if the facility currently or proposes to:
 - \boxtimes Yes \square No Use cooling towers that discharge blowdown or other wastestreams
 - \boxtimes Yes \square No Use boilers that discharge blowdown or other wastestreams
 - □ Yes 🛛 No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

- b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.
 - Manufacturers Product Identification Number
 - Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
 - Chemical composition including CASRN for each ingredient
 - Classify product as non-persistent, persistent, or bioaccumulative
 - Product or active ingredient half-life
 - Frequency of product use (e.g., 2 hours/day once every two weeks)
 - Product toxicity data specific to fish and aquatic invertebrate organisms
 - Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: J

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	9	535,680	803,520
Boilers	9	41,760	63,360

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 122.26(b)(14)*, commingled with any other wastestream?

⊠ Yes □ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: <u>Attachment K</u>

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

- a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.
 - Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.
 - Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.
 - Domestic and industrial treatment sludge ARE commingled prior to use or disposal.
 - □ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.
 - □ Facility is a POTW. Complete Worksheet 5.0.
 - Domestic sewage is not generated on-site.
 - ☑ Other (e.g., portable toilets), specify and Complete Item 7.b: Domestic sewage from the East Plant is discharged to and treated at the City of Corpus Christi publicly owned treatment works (POTW). Domestic sewage from the West Plant is treated in an on-site package biological treatment plant. Effluent from the package plant is routed to the West Plant's Industrial WWTP. West Plant domestic sewage sludge is combined with sludge from the Industrial WWTP and further processed in the aerobic digester prior to being fed to the coker unit.
- b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
City of Corpus Christi	WQ10401-004

Plant/Hauler Name	Permit/Registration No.

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

- a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?
 - 🗆 Yes 🖾 No
- b. Has the permittee completed or planned for any improvements or construction projects?

🗆 Yes 🖾 No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: Click to enter text.

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

🖾 Yes 🗆 No

If **yes**, identify the tests and describe their purposes: <u>All toxicity tests have been previously</u> <u>submitted</u>.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** Click to enter text.

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

🖾 Yes 🗆 No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

- b. Attach the following information to the application:
 - List of wastes received (including volumes, characterization, and capability with on-site wastes).
 - Identify the sources of wastes received (including the legal name and addresses of the generators).
 - Description of the relationship of waste source(s) with the facility's activities.

Attachment: <u>F</u>

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

🗆 Yes 🖾 No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

🗆 Yes 🖾 No

If yes, Worksheet 6.0 of this application is required.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

🗆 Yes 🖾 No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

□ Yes ⊠ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

🖾 Yes 🗆 No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

🗆 Yes 🖾 No

If **yes**, stop here. If **no**, continue.

- c. Cooling Water Supplier
 - 1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID	NA		
Owner	NA		
Operator	NA		

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

🖾 Yes 🗆 No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: <u>PWS No.</u> <u>TX1780003</u>. Since the use of water obtained from a public water system for cooling purposes does not constitute the use of a cooling water intake structure, the facility is not subject to <u>Section 316(b) of the CWA or 40 CFR Part 125</u>, Subpart J. Therefore, the remainder of this <u>section has not been completed</u>.

3. Cooling water is/will be obtained from a reclaimed water source?

🗆 Yes 🗆 No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: Click to enter text.

4. Cooling water is/will be obtained from an Independent Supplier

🗆 Yes 🗆 No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: Click to enter text.

- d. 316(b) General Criteria
 - 1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

🗆 Yes 🗆 No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

□ Yes □ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR §*

122.2.

□ Yes □ No

If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

□ Yes □ No

If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

- f. Oil and Gas Exploration and Production
 - 1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

🗆 Yes 🗆 No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

🗆 Yes 🗆 No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

- g. Compliance Phase and Track Selection
 - 1. Phase I New facility subject to 40 CFR Part 125, Subpart I

🗆 Yes 🗆 No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

- □ Track I AIF greater than 2 MGD, but less than 10 MGD
 - Attach information required by 40 CFR §§ 125.86(b)(2)-(4).
- □ Track I AIF greater than 10 MGD
 - Attach information required by 40 CFR § 125.86(b).
- □ Track II
 - Attach information required by 40 CFR § 125.86(c).

Attachment: Click to enter text.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

🗆 Yes 🗆 No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III - New facility subject to 40 CFR Part 125, Subpart N

□ Yes □ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

- □ Track I Fixed facility
 - Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.
- □ Track I Not a fixed facility
 - Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).
- □ Track II Fixed facility
 - Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

- a. Is the facility requesting a major amendment of an existing permit?
 - 🗆 Yes 🖾 No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Click to enter text.

b. Is the facility requesting any **minor amendments** to the permit?

🗆 Yes 🖾 No

If **yes**, list and describe each change individually.

Click to enter text.

c. Is the facility requesting any **minor modifications** to the permit?

🗆 Yes 🖾 No

If **yes**, list and describe each change individually.

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

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
 - \circ located in another state and is accredited or inspected by that state; or
 - \circ 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: John R. Vining

Title: Vice President and General Manager Corpus Christi Refinery

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

Item 1. Categorical Industries (Instructions, Page 53)

Is this facility subject to any 40 CFR categorical ELGs outlined on page 53 of the instructions?

🛛 Yes 🗆 No

If **no**, this worksheet is not required. If **yes**, provide the appropriate information below.

40 CFR Effluent Guideline

Industry	40 CFR Part
Petroleum Refining	419

Item 2. Production/Process Data (Instructions, Page 54)

NOTE: For all TPDES permit applications requesting individual permit coverage for discharges of oil and gas exploration and production wastewater (discharges into or adjacent to water in the state, falling under the Oil and Gas Extraction Effluent Guidelines – 40 CFR Part 435), see Worksheet 12.0, Item 2 instead.

a. Production Data

Provide appropriate data for effluent guidelines with production-based effluent limitations.

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
Atmospheric Distillation	143	175	1,000 bbl/day
Crude Desalting	143	175	1,000 bbl/day
Alkylation	20	30	1,000 bbl/day
Fluid Catalytic Cracking	58	75	1,000 bbl/day
Delayed Coking	33	48	1,000 bbl/day
Hydrodesulfurization	155	274	1,000 bbl/day
Catalytic Reforming	32	22	1,000 bbl/day

Production Data

b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)

Provide each applicable subpart and the percent of total production. Provide data for metalbearing and cyanide-bearing wastestreams, as required by *40 CFR Part 414, Appendices A and B*.

Percentage of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metals	Appendix A - Cyanide
Not Applicable			

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

The facility is classified under Subcategory B (Cracking), and products are produced using topping and cracking. The facility does not produce lube oils, and less than 15% of refinery production is first generation petrochemical or isomerization products, therefore Subpart C, Petrochemical subcategory is not applicable.

Item 3. Process/Non-Process Wastewater Flows (Instructions, Page 54)

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

See Attachment L (Tables 1.0-1 and 1.0-2)

Item 4. New Source Determination (Instructions, Page 54)

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced
Crude Desalting	419	В	1976
Crude Atmospheric Distillation	419	В	1976
Crude Vacuum Distillation	419	В	1976
Cracking/Coking: #1 FFC	419	В	1955
Cracking/Coking: #2 FFC	419	В	1976
Cracking/Coking: Delayed Coking	419	В	1983
Cracking/Coking: Gas Oil Hydrotreating	419	В	1976
Cracking/Coking: Heavy Distillate Hydrotreating	419	В	1983
Reforming/Alkylation: #4 Catalytic Reforming	419	В	1965
Reforming/Alkylation: #5 Catalytic Reforming	419	В	1983
Reforming/Alkylation: HF Alkylation	419	В	1976

Wastewater Generating Processes Subject to Effluent Guidelines

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): <u>03/21/2024-04/18/2024</u>
- b. \square Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** <u>M</u>

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** <u>Click to enter text.</u>

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: 001Samples are (check one): CompositeG				
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3.0	< 2.0	< 2.0	< 2.0
CBOD (5-day)	< 2.0	< 6.0	< 6.0	< 6.0
Chemical oxygen demand	40	46	58	67
Total organic carbon	2.9	2.4	3.9	4.4
Dissolved oxygen	6.5	8.8	5.8	5.0
Ammonia nitrogen	0.39	0.65	0.40	0.11
Total suspended solids	10	6.2	11	6.5
Nitrate nitrogen	15	18	15	12
Total organic nitrogen	15	2.8	18	2.1
Total phosphorus	3.5	0.3	0.5	0.4
Oil and grease	< 1.4	1.5	1.8	< 1.4
Total residual chlorine	0.02	0.10	0.10	0.04

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids	1600	2800	2000	2100
Sulfate	470	240	430	540
Chloride	1100	740	750	910
Fluoride	1.1	1.2	1.1	1.1
Total alkalinity (mg/L as CaCO3)	120	160	150	93
Temperature (°F)	78	73	75	85
pH (standard units)	7.6	7.8	7.6	7.1

Table 2 for Outfall No.: 001	-	Samples are (check one): Composite Samples 2 Composite Samples 2				
Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)	
Aluminum, total	2200	620	1000	1100	2.5	
Antimony, total	< 5	< 5	< 5	< 5	5	
Arsenic, total	12	7.7	8.6	8.7	0.5	
Barium, total	250	260	220	250	3	
Beryllium, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Cadmium, total	< 1	< 1	< 1	< 1	1	
Chromium, total	< 3	< 3	< 3	< 3	3	
Chromium, hexavalent	< 3	< 3	3.3	3	3	
Chromium, trivalent	< 5	< 5	< 5	< 5	N/A	
Copper, total	< 2	3.5	3.8	< 2	2	
Cyanide, available	5.1	< 5	5.4	6.7	2/10	
Lead, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Mercury, total	< 0.0005	0.006	< 0.0005	< 0.0005	0.005/0.0005	
Nickel, total	5.2	7.4	5.2	5.6	2	
Selenium, total	83	70	87	74	5	
Silver, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Thallium, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5	
Zinc, total	8	< 5	< 5	< 5	5.0	

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: <u>001</u>	Sample	Samples are (check one): 🗖 Composite 🛛 Grab					
Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*		
Acrylonitrile	< 50				50		
Anthracene	< 10				10		
Benzene	< 10				10		
Benzidine	< 50				50		
Benzo(a)anthracene	< 5				5		
Benzo(a)pyrene	< 5				5		
Bis(2-chloroethyl)ether	< 10				10		
Bis(2-ethylhexyl)phthalate	< 10				10		
Bromodichloromethane [Dichlorobromomethane]	< 10				10		
Bromoform	< 10				10		
Carbon tetrachloride	< 2				2		
Chlorobenzene	< 10				10		
Chlorodibromomethane [Dibromochloromethane]	< 10				10		
Chloroform	< 10				10		
Chrysene	< 5				5		
m-Cresol [3-Methylphenol]	< 10				10		
o-Cresol [2-Methylphenol]	< 10				10		
p-Cresol [4-Methylphenol]	< 10				10		
1,2-Dibromoethane	< 10				10		
m-Dichlorobenzene [1,3-Dichlorobenzene]	< 10				10		
o-Dichlorobenzene [1,2-Dichlorobenzene]	< 10				10		
p-Dichlorobenzene [1,4-Dichlorobenzene]	< 10				10		
3,3'-Dichlorobenzidine	< 5				5		
1,2-Dichloroethane	< 10				10		

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]	< 10				10
Dichloromethane [Methylene chloride]	< 20				20
1,2-Dichloropropane	< 10				10
1,3-Dichloropropene [1,3-Dichloropropylene]	< 10				10
2,4-Dimethylphenol	< 10				10
Di-n-Butyl phthalate	< 10				10
Ethylbenzene	< 10				10
Fluoride	1100				500
Hexachlorobenzene	< 5				5
Hexachlorobutadiene	< 10				10
Hexachlorocyclopentadiene	< 10				10
Hexachloroethane	< 20				20
Methyl ethyl ketone	< 50				50
Nitrobenzene	< 10				10
N-Nitrosodiethylamine	< 20				20
N-Nitroso-di-n-butylamine	< 20				20
Nonylphenol	< 333				333
Pentachlorobenzene	< 20				20
Pentachlorophenol	< 5				5
Phenanthrene	< 10				10
Polychlorinated biphenyls (PCBs) (**)	< 0.2				0.2
Pyridine	< 20				20
1,2,4,5-Tetrachlorobenzene	< 20				20
1,1,2,2-Tetrachloroethane	< 10				10
Tetrachloroethene [Tetrachloroethylene]	< 10				10
Toluene	< 10				10
1,1,1-Trichloroethane	< 10				10
1,1,2-Trichloroethane	< 10				10
Trichloroethene	< 10				10
[Trichloroethylene]					

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4,5-Trichlorophenol	< 50				50
TTHM (Total trihalomethanes)	15				10
Vinyl chloride	< 10				10

(*) Indicate units if different from μ g/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🖂 Yes 🗆 No

Domestic wastewater is/will be discharged.

□ Yes □ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: Click to enter text.	Samples are (check one): 🗖	Composite	G	rab
---	----------------------------	-----------	----------	-----

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

to enter text.	Samples are	e (check one): 🗆	Composite	🛛 Grab
Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
				0.01
				5
				0.2
				0.05
				0.1
				0.1
				0.02
				0.7
				—
				0.20
				0.5/0.1
				1
				0.02
				0.090
	Sample 1	Sample 1 Sample 2	Sample 1 Sample 2 Sample 3	Sample 1 Sample 2 Sample 3 Sample 4

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.:	:	Samples are	(check one):	Compos	ite 🗖 Gra	ab	
Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	\boxtimes		< 16001				400
Color (PCU)	\boxtimes		40				—
Nitrate-Nitrite (as N)	\boxtimes		15				—
Sulfide (as S)			< 0.029				—
Sulfite (as SO3)			< 5				—
Surfactants	\boxtimes		0.25				—
Boron, total	\boxtimes		1.0				20
Cobalt, total	\boxtimes		0.0008				0.3
Iron, total	\boxtimes		0.053				7
Magnesium, total	\boxtimes		20				20
Manganese, total	\boxtimes		0.073				0.5
Molybdenum, total	\boxtimes		0.0064				1
Tin, total		\boxtimes					5
Titanium, total		\boxtimes					30

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

 \square N/A

Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		🗆 Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	□ Yes	🗆 Yes	No
	Auto and Other Laundries		🗆 Yes	□ Yes	🗆 Yes	□ Yes
	Battery Manufacturing	461	□ Yes	No	□ Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	□ Yes	□ Yes	□ Yes	No
	Copper Forming	468	□ Yes	□ Yes	□ Yes	No
	Electric and Electronic Components	469	□ Yes	□ Yes	□ Yes	□ Yes
	Electroplating	413	□ Yes	□ Yes	□ Yes	No
	Explosives Manufacturing	457	No	□ Yes	□ Yes	No
	Foundries		□ Yes	□ Yes	□ Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	□ Yes	□ Yes	□ Yes	No
	Ore Mining - Subpart B	440	No	□ Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
\boxtimes	Petroleum Refining	419	🖾 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	□ Yes	□ Yes	No
	Photographic Equipment and Supplies	459	□ Yes	□ Yes	□ Yes	No
	Plastic and Synthetic Materials Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Plastic Processing	463	□ Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		□ Yes	□ Yes	□ Yes	□ Yes
	Pulp and Paperboard Mills - Subpart C	430	□ *	□ Yes	□ *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430		□ Yes	*	
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	🗆 Yes	*	*
	Pulp and Paperboard Mills - Subparts I, J, L	430	□ Yes	□ Yes	*	□ Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	□ Yes	□ Yes	
	Rubber Processing	428	□ Yes	□ Yes	□ Yes	No
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	□ Yes	No
	Steam Electric Power Plants	423	□ Yes	□ Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	□ Yes	□ Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes
	est if helieved present		<u> </u>	– 103	– 103	1 103

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: <u>001</u>	Samples are (check one): 🗖 Composite 🛛 Gra						
Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)		
Acrolein	< 50				50		
Acrylonitrile	< 50				50		
Benzene	< 10				10		
Bromoform	< 10				10		
Carbon tetrachloride					2		
Chlorobenzene	< 10				10		
Chlorodibromomethane	< 10				10		
Chloroethane	< 50				50		
2-Chloroethylvinyl ether	< 10				10		
Chloroform	< 10				10		
Dichlorobromomethane [Bromodichloromethane]	< 10				10		
1,1-Dichloroethane	< 10				10		
1,2-Dichloroethane	< 10				10		
1,1-Dichloroethylene [1,1-Dichloroethene]	< 10				10		
1,2-Dichloropropane	< 10				10		
1,3-Dichloropropylene [1,3-Dichloropropene]	< 10				10		
Ethylbenzene	< 10				10		
Methyl bromide [Bromomethane]	< 50				50		
Methyl chloride [Chloromethane]	< 50				50		
Methylene chloride [Dichloromethane]	< 20				20		
1,1,2,2-Tetrachloroethane	< 10				10		
Tetrachloroethylene [Tetrachloroethene]	< 10				10		
Toluene	< 10				10		
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]	< 10				10		

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,1,1-Trichloroethane	< 10				10
1,1,2-Trichloroethane	< 10				10
Trichloroethylene [Trichloroethene]	< 10				10
Vinyl chloride	< 10				10

* Indicate units if different from µg/L.

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Fable 10 for Outfall No.: Click to enter text. Samples are (check one): 🗖 Composite 🔲 Grab								
Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)			
Acenaphthene					10			
Acenaphthylene					10			
Anthracene					10			
Benzidine					50			
Benzo(a)anthracene					5			
Benzo(a)pyrene					5			
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10			
Benzo(ghi)perylene					20			
Benzo(k)fluoranthene					5			
Bis(2-chloroethoxy)methane					10			

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from μ g/L.

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
	(µg/L)*	(µg/L)*	(µg/L)*	(µg/L)*	(µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from μ g/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- □ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- □ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- □ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3
- □ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- □ hexachlorophene (HCP) CASRN 70-30-4
- \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: Click to enter text.

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8- PeCDD	1.0					50
2,3,7,8- HxCDDs	0.1					50
1,2,3,4,6,7,8- HpCDD	0.01					50

Table 12 for Outfall No.: Click to enter text. Samples are (check one): 🛛 Composite 🔲 Grab

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8- PeCDF	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖾 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.: Click to enter text.	Samples are (check one): 🗖	Composite	Grab	

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 3/19/2024 -4/9/2024
- b. 🛛 Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page **56**)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

 Table 1 for Outfall No.: 002

Samples are (check one):
Composite \boxtimes

C	r	aÌ	h
J	L	d	IJ

Grab				
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	2.3	2.0	< 2.0	< 2.0
CBOD (5-day)	< 2.0	< 2.0	< 2.0	< 2.0
Chemical oxygen demand	54	47	39	39
Total organic carbon	3.1	2.9	2.3	2.2
Dissolved oxygen	7.40	5.81	6.62	5.36

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Ammonia nitrogen	0.19	0.19	0.19	0.29
Total suspended solids	5.1	3.5	4.7	5.3
Nitrate nitrogen	10	20	18	15
Total organic nitrogen	12	22	20	17
Total phosphorus	0.4	1.2	0.9	1.3
Oil and grease	< 1.5	1.4	1.4	< 1.3
Total residual chlorine	0.05	0.04	0.13	0.09
Total dissolved solids	2200	1900	7200	2200
Sulfate	270	280	330	300
Chloride	830	1100	1200	840
Fluoride	1.7	2.0	1.9	1.9
Total alkalinity (mg/L as CaCO3)	150	130	160	190
Temperature (°F)	66.7	72.5	77.0	78.4
pH (standard units)	7.65	7.70	7.98	7.90

Table 2 for Outfall No.: <u>002</u> Grab

Samples are (check one): □ Composite ⊠

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	350	180	230	280	2.5
Antimony, total	< 5	< 5	< 5	< 5	5
Arsenic, total	2.2	8.0	7.5	9.8	0.5
Barium, total	150	130	190	170	3
Beryllium, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5
Cadmium, total	< 1	< 1	< 1	< 1	1
Chromium, total	< 3	< 3	< 3	< 3	3
Chromium, hexavalent	< 3	< 3	< 3	4.2	3
Chromium, trivalent	< 5	< 5	< 5	< 5	N/A
Copper, total	22	9.6	8.5	7.5	2

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Cyanide, available	22	9.6	8.5	7.5	2/10
Lead, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5
Mercury, total	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.005/0.0005
Nickel, total	12	2.2	< 2	3.4	2
Selenium, total	490	520	580	530	5
Silver, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5
Thallium, total	< 0.5	< 0.5	< 0.5	< 0.5	0.5
Zinc, total	12	5.6	5.8	6.7	5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: <u>002</u> Grab Samples are (check one): □ Composite ⊠

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	< 50				50
Anthracene	< 10				10
Benzene	< 10				10
Benzidine	< 50				50
Benzo(a)anthracene	< 5				5
Benzo(a)pyrene	< 5				5
Bis(2-chloroethyl)ether	< 10				10
Bis(2-ethylhexyl)phthalate	< 10				10
Bromodichloromethane [Dichlorobromomethane]	< 10				10
Bromoform	< 10				10
Carbon tetrachloride	< 2				2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorobenzene	< 10				10
Chlorodibromomethane [Dibromochloromethane]	< 10				10
Chloroform	< 10				10
Chrysene	< 5				5
m-Cresol [3-Methylphenol]	< 10				10
o-Cresol [2-Methylphenol]	< 10				10
p-Cresol [4-Methylphenol]	< 10				10
1,2-Dibromoethane	< 10				10
m-Dichlorobenzene [1,3-Dichlorobenzene]	< 10				10
o-Dichlorobenzene [1,2-Dichlorobenzene]	< 10				10
p-Dichlorobenzene [1,4-Dichlorobenzene]	< 10				10
3,3'-Dichlorobenzidine	< 5				5
1,2-Dichloroethane	< 10				10
1,1-Dichloroethene [1,1-Dichloroethylene]	< 10				10
Dichloromethane [Methylene chloride]	< 20				20
1,2-Dichloropropane	< 10				10
1,3-Dichloropropene [1,3-Dichloropropylene]	< 10				10
2,4-Dimethylphenol	< 10				10
Di-n-Butyl phthalate	< 10				10
Ethylbenzene	< 10				10
Fluoride	1700				500
Hexachlorobenzene	< 5				5
Hexachlorobutadiene	< 10				10
Hexachlorocyclopentadiene	< 10				10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachloroethane	< 20				20
Methyl ethyl ketone	< 50				50
Nitrobenzene	< 10				10
N-Nitrosodiethylamine	< 20				20
N-Nitroso-di-n-butylamine	< 20				20
Nonylphenol	< 333				333
Pentachlorobenzene	< 20				20
Pentachlorophenol	< 5				5
Phenanthrene	< 10				10
Polychlorinated biphenyls (PCBs) (**)	< 0.2				0.2
Pyridine	< 20				20
1,2,4,5-Tetrachlorobenzene	< 20				20
1,1,2,2-Tetrachloroethane	< 10				10
Tetrachloroethene [Tetrachloroethylene]	< 10				10
Toluene	< 10				10
1,1,1-Trichloroethane	< 10				10
1,1,2-Trichloroethane	< 10				10
Trichloroethene [Trichloroethylene]	< 10				10
2,4,5-Trichlorophenol	< 50				50
TTHM (Total trihalomethanes)	< 10				10
Vinyl chloride	< 10				10

(*) Indicate units if different from μ g/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🖾 Yes 🗆 No

Domestic wastewater is/will be discharged.

🖾 Yes 🗆 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖂 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: <u>002</u> Grab

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)	216.7	< 10.0	< 10.0	20.0	N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					-
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

 Table 6 for Outfall No.: 002

 Grab

Samples are (check one):
Composite \boxtimes

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	\boxtimes		< 16				400
Color (PCU)	\boxtimes		40				—
Nitrate-Nitrite (as N)			13				—
Sulfide (as S)	\boxtimes		0.033				—
Sulfite (as SO3)			5				—
Surfactants	\boxtimes		0.21				—
Boron, total			0.72				20
Cobalt, total	\boxtimes		< 0.3				0.3
Iron, total	\boxtimes		0.015				7
Magnesium, total			18				20
Manganese, total			0.0047				0.5
Molybdenum, total			0.018				1
Tin, total		\boxtimes					5
Titanium, total		\boxtimes					30

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

□ N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	🗆 Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	🗆 Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		🗆 Yes	🗆 Yes	□ Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	🗆 Yes	🗆 Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	🗆 Yes	🗆 Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	🗆 Yes	🗆 Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	🗆 Yes	No
	Leather Tanning and Finishing	425	🗆 Yes	🗆 Yes	🗆 Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	🗆 Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	🗆 Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	□ Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Paint and Ink Formulation	446,447	🗆 Yes	🗆 Yes	🗆 Yes	No
	Pesticides	455	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
\boxtimes	Petroleum Refining	419	🖾 Yes	No	No	No
	Pharmaceutical Preparations	439	□ Yes	□ Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	□ Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	□ Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	□ Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	□ Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	□ *	□ Yes	□ *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	□ *	□ Yes	*	*
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	🗆 Yes	□ *	•
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	🗆 Yes
	Pulp and Paperboard Mills - Subpart E	430	🗆 Yes	🗆 Yes	🗆 Yes	*
	Rubber Processing	428	□ Yes	□ Yes	□ Yes	No

Indu	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	□ Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	□ Yes	□ Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: <u>002</u> Grab

Samples are (check one): □ Composite ⊠

site	\bowtie

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL (µg/L)
	(µg/L)*	(µg/L)*	(µg/L)*	(µg/L)*	
Acrolein	< 50				50
Acrylonitrile	< 50				50
Benzene	< 10				10
Bromoform	< 10				10
Carbon tetrachloride	< 2				2
Chlorobenzene	< 10				10
Chlorodibromomethane	< 10				10
Chloroethane	< 50				50
2-Chloroethylvinyl ether	< 10				10
Chloroform	< 10				10
Dichlorobromomethane [Bromodichloromethane]	< 10				10
1,1-Dichloroethane	< 10				10
1,2-Dichloroethane	< 10				10
1,1-Dichloroethylene [1,1-Dichloroethene]	< 10				10
1,2-Dichloropropane	< 10				10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]	< 10				10
Ethylbenzene	< 10				10
Methyl bromide [Bromomethane]	< 50				50
Methyl chloride [Chloromethane]	< 50				50
Methylene chloride [Dichloromethane]	< 20				20
1,1,2,2-Tetrachloroethane	< 10				10
Tetrachloroethylene [Tetrachloroethene]	< 10				10
Toluene	< 10				10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]	< 10				10
1,1,1-Trichloroethane	< 10				10
1,1,2-Trichloroethane	< 10				10
Trichloroethylene [Trichloroethene]	< 10				10
Vinyl chloride	< 10				10

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 5/17/2024 – 7/7/2024
- b. 🛛 Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page **56**)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

 Table 1 for Outfall No.: 004

Samples are (check one):
Composite \boxtimes

-		-
-C	rn	h
U	ιa	.IJ

GIaD				
Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	12	12	8.0	7.7
CBOD (5-day)	12	7.1	7.8	<2.0
Chemical oxygen demand	84	79	77	76
Total organic carbon	12	9.3	13	2.1
Dissolved oxygen	N/A	N/A	N/A	N/A

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Ammonia nitrogen	0.36	0.16	0.07	0.17
Total suspended solids	420	1100	17	460
Nitrate nitrogen	2.4	< 2.0	1.0	0.4
Total organic nitrogen	4.3	3.8	3.1	2.9
Total phosphorus	0.57	0.76	0.39	0.34
Oil and grease	< 1.4	1.8	< 1.5	N/A
Total residual chlorine	N/A	N/A	N/A	N/A
Total dissolved solids	400	280	1000	270
Sulfate	88	68	310	62
Chloride	75	43	260	63
Fluoride	0.26	0.19	0.50	0.17
Total alkalinity (mg/L as CaCO3)	120	49	64	67
Temperature (°F)	N/A	N/A	N/A	N/A
pH (standard units)	N/A	N/A	N/A	N/A

Table 2 for Outfall No.: <u>004</u> Grab

57 Samples are (check one):
Composite

e	\boxtimes

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	17000	23000	470	4100	2.5
Antimony, total	< 5	5.5	< 5	< 5	5
Arsenic, total	10	17	6.1	5.2	0.5
Barium, total	410	740	150	160	3
Beryllium, total	< 0.5	1.0	< 0.5	<2	0.5
Cadmium, total	< 1	3.5	< 1	<2	1
Chromium, total	120	85	5.1	17	3
Chromium, hexavalent	< 3	< 3	< 3	<3	3
Chromium, trivalent	120	85	5.1	23	N/A
Copper, total	36	76	16	23	2

Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
< 5	< 5	< 5	<5	2/10
38	69	1.5	13	0.5
0.13	0.81	0.07	0.06	0.005/0.0005
18	37	4.4	7.4	2
< 5	5.2	< 5	<2	5
< 0.5	< 0.5	< 0.5	<2	0.5
< 0.5	< 0.5	< 0.5	<2	0.5
680	2500	46	480	5.0
	1 (µg/L) < 5 38 0.13 18 < 5 < 0.5 < 0.5	1 (µg/L)2 (µg/L)< 5	1 (µg/L)2 (µg/L)3 (µg/L)< 5	1 (µg/L)2 (µg/L)3 (µg/L)4 (µg/L) < 5 < 5 < 5 < 5 38 69 1.5 13 0.13 0.81 0.07 0.06 18 37 4.4 7.4 < 5 5.2 < 5 < 2 < 0.5 < 0.5 < 0.5 < 2

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.:

Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🛛 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.:Click to enter text.Grab

Samples are (check one):		Composite	\bowtie
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Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					_
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

TABLE 6 (Instructions, Page 59)

Completion of Table 6 **is required** for all **external outfalls**.

Table 6 for Outfall No.: <u>004</u> Grab

Samples are (check one):
Composite \boxtimes

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide		\boxtimes					400
Color (PCU)		\boxtimes					—
Nitrate-Nitrite (as N)			2.4	< 2.0	1.4	0.4	—
Sulfide (as S)		\boxtimes					—
Sulfite (as SO3)		\boxtimes					—
Surfactants		\boxtimes					
Boron, total		\boxtimes					20
Cobalt, total		\boxtimes					0.3
Iron, total		\boxtimes					7
Magnesium, total		\boxtimes					20
Manganese, total		\boxtimes					0.5
Molybdenum, total		\boxtimes					1
Tin, total		\boxtimes					5
Titanium, total		\boxtimes					30

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

🛛 N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	🗆 Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	🗆 Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		🗆 Yes	🗆 Yes	🗆 Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	□ Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	🗆 Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
	Petroleum Refining	419	🗆 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	🗆 Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	🗆 Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	🗆 Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	- *	🗆 Yes	- *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	- *	🗆 Yes	- *	- *
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	🗆 Yes	□ *	*
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	□ Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	🗆 Yes	□ Yes	□ *
	Rubber Processing	428	🗆 Yes	🗆 Yes	□ Yes	No

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	🗆 Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	🗆 Yes	🗆 Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.:Click to enter text.Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical 7/25/2024
- b. 🛛 Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page **56**)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: 005

Samples are (check one):
Composite \boxtimes

C		- 1.	
G	ra	ar)

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	7.1	3.2	47	
CBOD (5-day)	5.9	2.9	<12.0	
Chemical oxygen demand	42	28	68	
Total organic carbon	13	8.4	8.4	
Dissolved oxygen	N/A	53.5	27.9%	

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Ammonia nitrogen	0.23	< 0.051	0.052	
Total suspended solids	57	220	300	
Nitrate nitrogen	270	0.52	.49	
Total organic nitrogen	1.7	1.4	2.0	
Total phosphorus	0.34	0.17	0.18	
Oil and grease	1.6	< 1.4	<1.6	
Total residual chlorine	N/A	0	0	
Total dissolved solids	650	130	150	
Sulfate	< 750	9.3	11	
Chloride	< 380	10	14	
Fluoride	0.10	0.13	0.12	
Total alkalinity (mg/L as CaCO3)	53	64	95	
Temperature (°F)	N/A	73.9	27.2	
pH (standard units)	N/A	7.87	N/A	

Table 2 for Outfall No.: 005 Grab

Samples are (check one):
Composit

site	\bowtie

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	1800	950	3800		2.5
Antimony, total	< 5.3	< 5	<1.1		5
Arsenic, total	5.0	2.9	4.4		0.5
Barium, total	62	68	140		3
Beryllium, total	< 0.74	< 0.5	0.20		0.5
Cadmium, total	< 1.3	< 1	0.37		1
Chromium, total	< 15	10	14		3
Chromium, hexavalent	< 3	< 3	18		3
Chromium, trivalent	< 3	10	<3.0		N/A
Copper, total	26	19	30		2

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Cyanide, available	< 5	< 5	<5		2/10
Lead, total	4.8	4.1	9.4		0.5
Mercury, total	0.017	0.0082	0.016		0.005/0.0005
Nickel, total	5.6	3.0	6.5		2
Selenium, total	< 5	< 5	< 0.69		5
Silver, total	0.59	< 0.5	0.59		0.5
Thallium, total	< 1.1	< 0.5	<0.22		0.5
Zinc, total	140	100	210		5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.:

Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🛛 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.:Click to enter text.Grab

Samples are (check one):		Composite	\bowtie
--------------------------	--	-----------	-----------

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					_
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: 005 Grab

Samples are (check one):
Composite

Believed Sample Sample Sample Sample MAL Pollutants Believed $(\mu g/L)^*$ Present Absent 2 3 4 1 (mg/L) (mg/L)(mg/L)(mg/L)Bromide 400 \boxtimes Color (PCU) \boxtimes ____ Nitrate-Nitrite \boxtimes < 400 0.89 ____ (as N) Sulfide (as S) \boxtimes ____ Sulfite (as \boxtimes SO3) Surfactants \boxtimes ____ Boron, total \boxtimes 20 Cobalt, total 0.3 \boxtimes 7 Iron, total \boxtimes Magnesium, \boxtimes 20 total Manganese, 0.5 \boxtimes total Molybdenum, 1 \boxtimes total 5 Tin, total \boxtimes 30 Titanium, \boxtimes total

 \boxtimes

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

🛛 N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		□ Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	🗆 Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	🗆 Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	□ Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		🗆 Yes	🗆 Yes	🗆 Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	□ Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	🗆 Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
	Petroleum Refining	419	🗆 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	🗆 Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	🗆 Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	🗆 Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	- *	🗆 Yes	- *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	- *	🗆 Yes	- *	- *
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	□ Yes		*
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	🗆 Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	🗆 Yes	□ Yes	□ *
	Rubber Processing	428	🗆 Yes	🗆 Yes	□ Yes	No

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	🗆 Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	🗆 Yes	🗆 Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.:Click to enter text.Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical 7/25/2024
- b. 🛛 Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

 Table 1 for Outfall No.: 006

Samples are (check one):
Composite \boxtimes

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~	JТ	u	L, L,

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	22	40	< 2.1	
CBOD (5-day)	18	40	< 3.0	
Chemical oxygen demand	410	160	77	
Total organic carbon	17	59	11	
Dissolved oxygen	N/A	53.8	N/A	

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Ammonia nitrogen	0.36	0.43	1.0	
Total suspended solids	1200	320	58	
Nitrate nitrogen	2.2	0.72	0.88	
Total organic nitrogen	6.8	13	6.2	
Total phosphorus	1.1	0.32	0.69	
Oil and grease	7.0	< 1.4	< 1.6	
Total residual chlorine	N/A	0		
Total dissolved solids	270	390	700	
Sulfate	39	96	140	
Chloride	37	87	120	
Fluoride	0.21	0.27	0.57	
Total alkalinity (mg/L as CaCO3)	79	140	200	
Temperature (°F)	N/A	73.2	N/A	
pH (standard units)	N/A	8.6	N/A	

Table 2 for Outfall No.: <u>006</u> Grab

Samples are (check one): \Box Composite \boxtimes

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Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	47000	1400	480		2.5
Antimony, total	< 5	< 5	< 5		5
Arsenic, total	17	6.4	10		0.5
Barium, total	1000	140	150		3
Beryllium, total	1.8	< 0.5	< 0.5		0.5
Cadmium, total	2.0	< 1	< 1		1
Chromium, total	86	9.6	< 3		3
Chromium, hexavalent	< 3	< 3	< 3		3
Chromium, trivalent	86	9.6	< 3		N/A
Copper, total	89	10	10		2

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Cyanide, available	8.2	< 5	< 5		2/10
Lead, total	61	6.1	1.1		0.5
Mercury, total	0.52	0.046	0.016		0.005/0.0005
Nickel, total	70	5.5	4.1		2
Selenium, total	8.0	< 5	< 5		5
Silver, total	< 0.5	< 0.5	< 0.5		0.5
Thallium, total	0.54	< 0.5	< 0.5		0.5
Zinc, total	3100	270	55		5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.:

Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🛛 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.:Click to enter text.Grab

Samples are (check one):		Composite	\bowtie
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Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					_
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: <u>006</u> Grab Samples are (check one): □ Composite ⊠

Believed Sample Sample Sample Sample MAL Pollutants Believed $(\mu g/L)^*$ Present Absent 2 3 4 1 (mg/L) (mg/L)(mg/L)(mg/L)Bromide 400 \boxtimes Color (PCU) \boxtimes ____ Nitrate-Nitrite \boxtimes 2.2 0.92 ____ (as N) Sulfide (as S) \boxtimes ____ Sulfite (as \boxtimes SO3) Surfactants \boxtimes ____ Boron, total \boxtimes 20 Cobalt, total 0.3 \boxtimes 7 Iron, total \boxtimes Magnesium, \boxtimes 20 total Manganese, 0.5 \boxtimes total Molybdenum, 1 \boxtimes total 5 Tin, total \boxtimes 30 Titanium, \boxtimes total

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

🛛 N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		□ Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	□ Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	□ Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		□ Yes	🗆 Yes	🗆 Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	□ Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	🗆 Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
	Petroleum Refining	419	🗆 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	🗆 Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	🗆 Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	🗆 Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	- *	🗆 Yes	- *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	- *	🗆 Yes	- *	- *
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	🗆 Yes		*
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	🗆 Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	🗆 Yes	□ Yes	□ *
	Rubber Processing	428	🗆 Yes	🗆 Yes	□ Yes	No

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	🗆 Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	🗆 Yes	🗆 Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.:Click to enter text.Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 6/19/2024-7/25/2024
- b. 🛛 Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

 Table 1 for Outfall No.: 007

Samples are (check one):
Composite \boxtimes

G	r	al	h
<u> </u>	Ľ	u	9

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3.5	< 12		
CBOD (5-day)	4.0	< 12		
Chemical oxygen demand	32	23		
Total organic carbon	8.6	8.1		
Dissolved oxygen	56.2	N/A		

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Ammonia nitrogen	0.065	< 0.051		
Total suspended solids	180	8.5		
Nitrate nitrogen	0.53	0.30		
Total organic nitrogen	1.3	1.2		
Total phosphorus	0.19	0.42		
Oil and grease	< 1.6	< 1.6		
Total residual chlorine	0	N/A		
Total dissolved solids	110	100		
Sulfate	9.3	3.1		
Chloride	10	3.1		
Fluoride	0.14	0.03		
Total alkalinity (mg/L as CaCO3)	68	55		
Temperature (°F)	75.2	N/A		
pH (standard units)	7.83	N/A		

Table 2 for Outfall No.: <u>007</u> Grab

Samples are (check one): \Box Composite \boxtimes

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	1100	310			2.5
Antimony, total	< 5	< 5			5
Arsenic, total	3.3	2.0			0.5
Barium, total	98	33			3
Beryllium, total	< 0.5	< 0.5			0.5
Cadmium, total	< 1	< 1			1
Chromium, total	12	< 3			3
Chromium, hexavalent	< 3	< 3			3
Chromium, trivalent	12	< 3			N/A
Copper, total	23	3.8			2

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Cyanide, available	< 5	< 5			2/10
Lead, total	5.9	0.6			0.5
Mercury, total	0.009	0.003			0.005/0.0005
Nickel, total	3.7	< 2			2
Selenium, total	< 5	< 5			5
Silver, total	< 0.5	< 0.5			0.5
Thallium, total	< 0.5	< 0.5			0.5
Zinc, total	140	13			5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.:Samples are (check one):CompositeGrab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🛛 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.:Click to enter text.Grab

Samples are (check one):		Composite	\bowtie
--------------------------	--	-----------	-----------

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					_
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: 007

Samples are (check one):
Composite \boxtimes

Believed Sample Sample Sample Sample MAL Pollutants Believed $(\mu g/L)^*$ Present Absent 2 3 4 1 (mg/L) (mg/L)(mg/L)(mg/L)Bromide 400 \boxtimes Color (PCU) \boxtimes ____ Nitrate-Nitrite \boxtimes 0.53 ____ (as N) Sulfide (as S) \boxtimes ____ Sulfite (as \boxtimes SO3) Surfactants \boxtimes ____ Boron, total \boxtimes 20 Cobalt, total 0.3 \boxtimes 7 Iron, total \boxtimes Magnesium, \boxtimes 20 total Manganese, 0.5 \boxtimes total Molybdenum, 1 \boxtimes total 5 Tin, total \boxtimes 30 Titanium, \boxtimes total

Grab

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

🛛 N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	🗆 Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	🗆 Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	□ Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		🗆 Yes	🗆 Yes	🗆 Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	□ Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	🗆 Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
	Petroleum Refining	419	🗆 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	🗆 Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	🗆 Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	🗆 Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	- *	🗆 Yes	- *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	- *	🗆 Yes	- *	- *
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	□ Yes	□ *	*
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	🗆 Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	🗆 Yes	□ Yes	□ *
	Rubber Processing	428	🗆 Yes	🗆 Yes	□ Yes	No

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	🗆 Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	🗆 Yes	🗆 Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.:Click to enter text.Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 7/25/2024
- Check the box to confirm all samples were collected no more than 12 months b. 🖂 prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page **56**)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: **008** Grab

Samples are (check one): Composite \boxtimes

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	< 12			
CBOD (5-day)	< 6.0			
Chemical oxygen demand	120			
Total organic carbon	3.7			
Dissolved oxygen	N/A			
Ammonia nitrogen	< 0.051			

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total suspended solids	620			
Nitrate nitrogen	0.26			
Total organic nitrogen	1.7			
Total phosphorus	0.34			
Oil and grease	< 1.6			
Total residual chlorine	N/A			
Total dissolved solids	170			
Sulfate	34			
Chloride	13			
Fluoride	0.20			
Total alkalinity (mg/L as CaCO3)	65			
Temperature (°F)	N/A			
pH (standard units)	N/A			

Table 2 for Outfall No.: <u>008</u> Grab

Samples are (check one):
Composite

te 🛛

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	2100				2.5
Antimony, total	< 5				5
Arsenic, total	2.8				0.5
Barium, total	120				3
Beryllium, total	< 0.5				0.5
Cadmium, total	< 1				1
Chromium, total	7.9				3
Chromium, hexavalent	< 3				3
Chromium, trivalent	7.9				N/A
Copper, total	14				2
Cyanide, available	< 5				2/10

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Lead, total	11				0.5
Mercury, total	0.023				0.005/0.0005
Nickel, total	4.5				2
Selenium, total	< 5				5
Silver, total	< 0.5				0.5
Thallium, total	< 0.5				0.5
Zinc, total	660				5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: Grab

Samples are (check one): \Box Composite \Box

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20

Pollutant	Sample	Sample 2	Sample 3	Sample 4	MAL (µg/L)*
	(µg/L)*	(µg/L)*	(µg/L)*	(µg/L)*	
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🛛 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🛛 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🛛 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.:Click to enter text.Grab

Samples are (check one):		Composite	\bowtie
--------------------------	--	-----------	-----------

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					_
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: 007

Samples are (check one):
Composite \boxtimes

Believed Sample Sample Sample Sample MAL Pollutants Believed $(\mu g/L)^*$ Present Absent 2 3 4 1 (mg/L) (mg/L)(mg/L)(mg/L)Bromide 400 \boxtimes Color (PCU) \boxtimes ____ Nitrate-Nitrite \boxtimes 0.53 ____ (as N) Sulfide (as S) \boxtimes ____ Sulfite (as \boxtimes SO3) Surfactants \boxtimes ____ Boron, total \boxtimes 20 Cobalt, total 0.3 \boxtimes 7 Iron, total \boxtimes Magnesium, \boxtimes 20 total Manganese, 0.5 \boxtimes total Molybdenum, 1 \boxtimes total 5 Tin, total \boxtimes 30 Titanium, \boxtimes total

Grab

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

🛛 N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	🗆 Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	🗆 Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		□ Yes	🗆 Yes	🗆 Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	□ Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	🗆 Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
	Petroleum Refining	419	🗆 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	🗆 Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	🗆 Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	🗆 Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	- *	🗆 Yes	- *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	- *	🗆 Yes	- *	- *
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	🗆 Yes		*
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	🗆 Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	🗆 Yes	□ Yes	□ *
	Rubber Processing	428	🗆 Yes	🗆 Yes	□ Yes	No

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	🗆 Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	🗆 Yes	🗆 Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.:Click to enter text.Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION **WORKSHEET 2.0: POLLUTANT ANALYSIS**

Worksheet 2.0 is required for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 6/19/2024 -7/25/2024
- b. 🛛 Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. Attachment: M

Item 2. Specific Testing Requirements (Instructions, Page **56**)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. Attachment: N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: 009

Samples are (check one):
Composite \boxtimes

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Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	3.6	< 12		
CBOD (5-day)	3.1	< 6.0		
Chemical oxygen demand	31	100		
Total organic carbon	4.2	4.7		
Dissolved oxygen	45.9	N/A		

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Ammonia nitrogen	< 0.051	0.16		
Total suspended solids	250	1300		
Nitrate nitrogen	1.2	0.6		
Total organic nitrogen	1.4	3.7		
Total phosphorus	0.42	0.77		
Oil and grease	< 1.5	1.6		
Total residual chlorine	0	N/A		
Total dissolved solids	380	250		
Sulfate	77	20		
Chloride	120	84		
Fluoride	0.43	0.29		
Total alkalinity (mg/L as CaCO3)	66	73		
Temperature (°F)	72.0	N/A		
pH (standard units)	8.10	N/A		

Table 2 for Outfall No.: <u>009</u> Grab

Samples are (check one): \Box Composite \boxtimes

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	1100	8200			2.5
Antimony, total	< 5	< 5			5
Arsenic, total	4.5	6.3			0.5
Barium, total	110	300			3
Beryllium, total	< 0.5	< 0.5			0.5
Cadmium, total	< 1	< 1			1
Chromium, total	8.9	28			3
Chromium, hexavalent	< 3	< 3			3
Chromium, trivalent	8.9	28			N/A
Copper, total	18	260			2

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Cyanide, available	< 5	< 5			2/10
Lead, total	12	42			0.5
Mercury, total	0.054	0.13			0.005/0.0005
Nickel, total	4.5	12			2
Selenium, total	< 5	< 5			5
Silver, total	< 0.5	< 0.5			0.5
Thallium, total	< 0.5	< 0.5			0.5
Zinc, total	440	790			5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.:

Grab

Samples are (check one): □ Composite ⊠

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene	< 10	< 10			10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene	< 10	< 10			10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene	< 10	20			10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. Tributyltin

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

🗆 Yes 🖾 No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

- □ Manufacturers and formulators of tributyltin or related compounds.
- □ Painting of ships, boats and marine structures.
- □ Ship and boat building and repairing.
- □ Ship and boat cleaning, salvage, wrecking and scaling.
- □ Operation and maintenance of marine cargo handling facilities and marinas.
- □ Facilities engaged in wood preserving.
- Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. Enterococci (discharge to saltwater)

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🛛 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

🗆 Yes 🖾 No

Domestic wastewater is/will be discharged.

🗆 Yes 🖾 No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.:Click to enter text.Grab

Samples are (check one):		Composite	\bowtie
--------------------------	--	-----------	-----------

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
<i>E. coli</i> (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

🛛 N/A

Table 5 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					_
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Dieldrin					0.02
Diuron					0.090
Endosulfan I (<i>alpha</i>)					0.01
Endosulfan II (<i>beta</i>)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (<i>alpha</i>)					0.05
Hexachlorocyclohexane (<i>beta</i>)					0.05
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from $\mu g/L$.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

 Table 6 for Outfall No.: 009

 Grab

Samples are (check one):
Composite

Believed Sample Sample Sample Sample MAL Pollutants Believed $(\mu g/L)^*$ Present Absent 2 3 4 1 (mg/L) (mg/L)(mg/L) (mg/L)Bromide 400 \boxtimes Color (PCU) \boxtimes ____ Nitrate-Nitrite \boxtimes 1.4 ____ (as N) Sulfide (as S) \boxtimes ____ Sulfite (as \boxtimes SO3) Surfactants \boxtimes ____ Boron, total \boxtimes 20 Cobalt, total 0.3 \boxtimes 7 Iron, total \boxtimes Magnesium, \boxtimes 20 total Manganese, 0.5 \boxtimes total Molybdenum, 1 \boxtimes total 5 Tin, total \boxtimes 30 Titanium, \boxtimes total

 \boxtimes

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

🛛 N/A

 Table 7 for Applicable Industrial Categories

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Adhesives and Sealants		□ Yes	□ Yes	□ Yes	No
	Aluminum Forming	467	🗆 Yes	🗆 Yes	🗆 Yes	No
	Auto and Other Laundries		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Battery Manufacturing	461	🗆 Yes	No	🗆 Yes	No
	Coal Mining	434	No	No	No	No
	Coil Coating	465	🗆 Yes	🗆 Yes	🗆 Yes	No
	Copper Forming	468	🗆 Yes	🗆 Yes	🗆 Yes	No
	Electric and Electronic Components	469	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Electroplating	413	🗆 Yes	🗆 Yes	🗆 Yes	No
	Explosives Manufacturing	457	No	🗆 Yes	🗆 Yes	No
	Foundries		🗆 Yes	🗆 Yes	🗆 Yes	No
	Gum and Wood Chemicals - Subparts A,B,C,E	454	□ Yes	□ Yes	No	No
	Gum and Wood Chemicals - Subparts D,F	454	□ Yes	□ Yes	□ Yes	No
	Inorganic Chemicals Manufacturing	415	□ Yes	□ Yes	□ Yes	No
	Iron and Steel Manufacturing	420	□ Yes	□ Yes	□ Yes	No
	Leather Tanning and Finishing	425	□ Yes	□ Yes	□ Yes	No
	Mechanical Products Manufacturing		□ Yes	□ Yes	□ Yes	No
	Nonferrous Metals Manufacturing	421,471	□ Yes	□ Yes	□ Yes	□ Yes
	Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	🗆 Yes	□ Yes	🗆 Yes	No
	Ore Mining - Subpart B	440	No	🗆 Yes	No	No
	Organic Chemicals Manufacturing	414	□ Yes	□ Yes	□ Yes	□ Yes
	Paint and Ink Formulation	446,447	□ Yes	□ Yes	□ Yes	No
	Pesticides	455	□ Yes	□ Yes	□ Yes	□ Yes
	Petroleum Refining	419	🗆 Yes	No	No	No
	Pharmaceutical Preparations	439	🗆 Yes	🗆 Yes	🗆 Yes	No
	Photographic Equipment and Supplies	459	🗆 Yes	🗆 Yes	🗆 Yes	No
	Plastic and Synthetic Materials Manufacturing	414	🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Plastic Processing	463	🗆 Yes	No	No	No
	Porcelain Enameling	466	No	No	No	No
	Printing and Publishing		🗆 Yes	🗆 Yes	🗆 Yes	🗆 Yes
	Pulp and Paperboard Mills - Subpart C	430	- *	🗆 Yes	- *	□ Yes
	Pulp and Paperboard Mills - Subparts F, K	430	- *	🗆 Yes	- *	- *
	Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	🗆 Yes	□ Yes		*
	Pulp and Paperboard Mills - Subparts I, J, L	430	🗆 Yes	🗆 Yes	□ *	□ Yes
	Pulp and Paperboard Mills - Subpart E	430	□ Yes	🗆 Yes	□ Yes	□ *
	Rubber Processing	428	🗆 Yes	🗆 Yes	□ Yes	No

Ind	ustrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
	Soap and Detergent Manufacturing	417	□ Yes	□ Yes	🗆 Yes	No
	Steam Electric Power Plants	423	🗆 Yes	🗆 Yes	No	No
	Textile Mills (Not Subpart C)	410	□ Yes	🗆 Yes	🗆 Yes	No
	Timber Products Processing	429	□ Yes	□ Yes	□ Yes	□ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.:Click to enter text.Grab

Samples are (check one): □ Composite □

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: Click to enter text. Grab

Samples are (check one):
Composite

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

 Table 10 for Outfall No.: Click to enter text.
 Samples are (check one):
 □
 Composite
 □

 Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: Click to enter text. Samples are (check one): Composite Grab

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha- Hexachlorocyclohexane]					0.05
beta-BHC [beta- Hexachlorocyclohexane]					0.05
gamma-BHC [gamma- Hexachlorocyclohexane]					0.05
delta-BHC [delta- Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from μ g/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

□ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

□ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

□ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

□ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

□ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

□ hexachlorophene (HCP) CASRN 70-30-4

 \boxtimes None of the above

Description: <u>Click to enter text.</u>

Does the applicant or anyone at the facility 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 the effluent proposed for discharge?

🗆 Yes 🖾 No

Description: <u>Click to enter text.</u>

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. Samples are (check one): □ Composite □ Grab

Compound	Toxicity Equivalen t Factors	Wastewater Concentratio n (ppq)	Wastewate r Toxicity Equivalent s (ppq)	Sludge Concentratio n (ppt)	Sludge Toxicity Equivalent s (ppt)	MAL (ppq)
2,3,7,8- TCDD	1					10
1,2,3,7,8- PeCDD	1.0					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	0.03					50
2,3,4,7,8- PeCDF	0.3					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					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

🗆 Yes 🗵 No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

🗆 Yes 🖂 No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.:Click to enter text.Samples are (check one):□Composite□Grab

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

🗆 Yes 🛛 No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

- 1. The legal name of the owner of the drinking water supply intake: Click to enter text.
- 2. The distance and direction from the outfall to the drinking water supply intake: <u>Click to</u> <u>enter text.</u>
- b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: <u>Approximately 900</u> feet

b. Are there oyster reefs in the vicinity of the discharge?

🗆 Yes 🖾 No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: <u>Click to</u> <u>enter text.</u>

c. Are there sea grasses within the vicinity of the point of discharge?

🗆 Yes 🖾 No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: <u>Click to enter</u> <u>text</u>.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

🖾 Yes 🗆 No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

ATTACHMENT A

PAYMENT VOUCHER

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Trace Number:	582EA000622347
Date	08/20/2024 01:27 PM
Payment Method:	CC - Authorization 0000042608
ePay Actor:	JANE BUENTELLO
Actor Email:	jarria1@citgo.com
IP	155.190.8.4
TCEQ Amount	\$2,015.00
Texas.gov Price	\$2,060.59*
. ,	cas.gov, the official website of Texas. The price of this service includes funds that support the ements of Texas.gov, which is provided by a third party in partnership with the State.

Name: ZULEMA GARCIA
Company: CITGO REFINING AND CHEMICALS
Address: 1802 NUECES BAY BLVD, CORPUS CHRISTI, TX 78407
Phone: 361-844-4163

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description A	R Number	Amount
718070	WW PERMIT - MAJOR INDUSTRIAL FACILITY - RENEWAL		\$2,000.00
718071	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		\$15.00
	TCE	Q Amount:	\$2,015.00

ePay Again Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

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ATTACHMENT B

CORE DATA FORM



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 desc	cribe in space provided.)	
New Permit, Registration or Authorization (Core Data I	Form should be submitted with	the program application.)
Renewal (Core Data Form should be submitted with the	e renewal form)	L Other
2. Customer Reference Number (if issued)	Follow this link to search	3. Regulated Entity Reference Number (if issued)
	for CN or RN numbers in	
CN 600127922	Central Registry**	RN 102555166

SECTION II: Customer Information

4. General Customer Information	eneral Customer Information 5. Effective Date for Customer Information				Updates (mm/dd/yyyy)		
New Customer Update to Customer Information Change in Regulated Entity Ownership Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)							
The Customer Name submitted here may	•	sed on what is c	urrent and active	with th	he Texas Secr	etary of State	
(SOS) or Texas Comptroller of Public Acco	ounts (CPA).						
6. Customer Legal Name (If an individual, p	rint last name first: eg: Doe, John)		If new Customer,	enter pro	evious Custome	er below:	
CITGO Refining and Chemicals Company L.P							
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)		9. Federal Tax I	D	10. DUNS N	lumber (if	
8518711	15103702591		(9 digits)		applicable)		
			15103702591		619084887		
11. Type of Customer :	ation	🗌 Individ	lual	Partne	ership: 🗌 Gene	eral 🔀 Limited	
Government: 🗌 City 🗌 County 🔲 Federal 🗌] Local 🔲 State 🗌 Other	Sole Pi	roprietorship	🗌 Ot	her:		
12. Number of Employees			13. Independer	ntly Ow	ned and Ope	rated?	
0-20 21-100 101-250 25	1-500 🛛 501 and higher		🗌 Yes 🛛 No				
14. Customer Role (Proposed or Actual) – as	it relates to the Regulated Entity I	isted on this form.	Please check one of	the follo	owing		
Owner Operator	Owner & Operator arty UCP/BSA Applicant		Other:				
P.O. Box 9176 15. Mailing							
Address:							
City Corpus Christi					ZIP + 4		
16. Country Mailing Information (if outsia	17. E-Mail Address (if applicable)						
N/A	vfuente@citgo.com						
18. Telephone Number	Code	20. Fax N	umber	(if applicable)			

SECTION III: Regulated Entity Information

21. General Regulated Er	ntity Informa	ation (If 'New Regulat	ed Entity" is sele	cted, a new	permit appli	cation is also requir	ed.)	
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.)								
CITGO Corpus Christi Refinery East Plant								
23. Street Address of	es Bay Blvd							
the Regulated Entity:								
<u>(No PO Boxes)</u>	City	Corpus Christi	State	тх	ZIP	78407	ZIP + 4	
24. County	Nueces							
		If no Street A	ddress is provi	ded, fields	25-28 are	required.		
25. Description to								

Physical Location:									
26. Nearest City						State		Nea	rest ZIP Code
Corpus Christi TX 78407)7
Latitude/Longitude are re used to supply coordinate	-				ata Stando	ards. (Geoc	oding of th	e Physical	Address may be
27. Latitude (N) In Decim	al:			28. Lo	ongitude (\	W) In Decin	nal:		
Degrees	Minutes	Sec	onds	Degre	es	М	inutes		Seconds
27		48	36		97		25		35
29. Primary SIC Code	30.	Secondary SIC Cod	e	31. Primar	y NAICS Co	ode	32. Secor	ndary NAI	CS Code
(4 digits)	(4 c	ligits)		(5 or 6 digit	s)		(5 or 6 dig	its)	
2911	517	'1		32411 42471			42471		
33. What is the Primary E	Business of	this entity? (Do not	t repeat the SIC or	NAICS descri	iption.)				
Petroleum refinery and assoc	c. terminal								
	P.O. Box 9	176							
34. Mailing									
Address:	City	Corpus Christi	State	тх	ZIP	78469		ZIP + 4	
35. E-Mail Address:	ZGa	arcia@citgo.com							1
36. Telephone Number		37	7. Extension or (Code	38. F	ax Numbe	r (if applicab	le)	
(361) 844-4163					() -			

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

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

SECTION IV: Preparer Information

40. Name:	Nancy Koch			41. Title:	Senior Project Manager	
42. Telephon	e Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address	
(512) 651-710	94		() -	nancy.koch	@westonsolutions.com	

SECTION V: Authorized Signature

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

Company:	CITGO Refining and Chemicals Company L.P.	Job Title:	Vice President and Gen	eral Manager Corpus Christi Refinery
Name (In Print):	John R. Vining	Phone:	(361)844-4000	
Signature:	MR.US		Date:	914124
Signature:	MIR. CD		Date:	9/4/24

ATTACHMENT C

PLAIN LANGUAGE SUMMARY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

CITGO Refining and Chemicals Company L.P. (CN600127922) operates CITGO Corpus Christi Refinery (RN102555166), an oil refinery and chemical manufacturing facility. The facility is located at 1801 Nueces Bay Blvd. (East Plant) and 7350 IH-37 (West Plant), in Corpus Christi, Nueces County, Texas 78407 (East Plant) and 78409 (West Plant). This application requests a renewal of this permit, which authorizes an industrial wastewater discharge not to exceed a daily average of 3.5 million gallons per day or daily maximum of 6.2 million gallons per day via Outfall 001, an industrial wastewater discharge not to exceed a daily average of 1.6 million gallons per day or a daily maximum of 3.1 million gallons per day via Outfall 002, and intermittent stormwater with small volumes of non-process wastewater may be discharged through Outfalls 003, 004, 005, 006, 007, 008, and 009.

Discharges from the facility are expected to contain biochemical oxygen demand, total suspended solids, chemical oxygen demand, oil and grease, ammonia, sulfide, fluoride, phenolic compounds, chromium (total and hexavalent), enterococci (Outfall 002 only),

residual chlorine (Outfall 001 only). For the stormwater outfalls (Outfalls 003-009), discharges are expected to contain total organic carbon and oil and grease. Additionally, Outfalls 003 and 009 are expected to contain benzene, toluene, ethylbenzene, total xylenes and total chromium and Outfall 009 is expected to contain copper. Process wastewater, cooling tower blowdown, boiler blowdown, utility wastewater, and process area stormwater runoff are discharged through Outfalls 001 and 002. Ballast water and recovered groundwater may be discharged to Outfall 001 and treated domestic wastewater is discharged through Outfall 002. Stormwater with small volumes of non-process wastewater are discharged through Outfalls 003, 004, 005, 006, 007, 008, and 009. Wastewaters discharged through either Outfall 001 or 002 are treated by a coalescing plate interceptor, flocculation, dissolved air flotation, pre-aeration basins, aerobic digesters, and clarifiers.

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

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

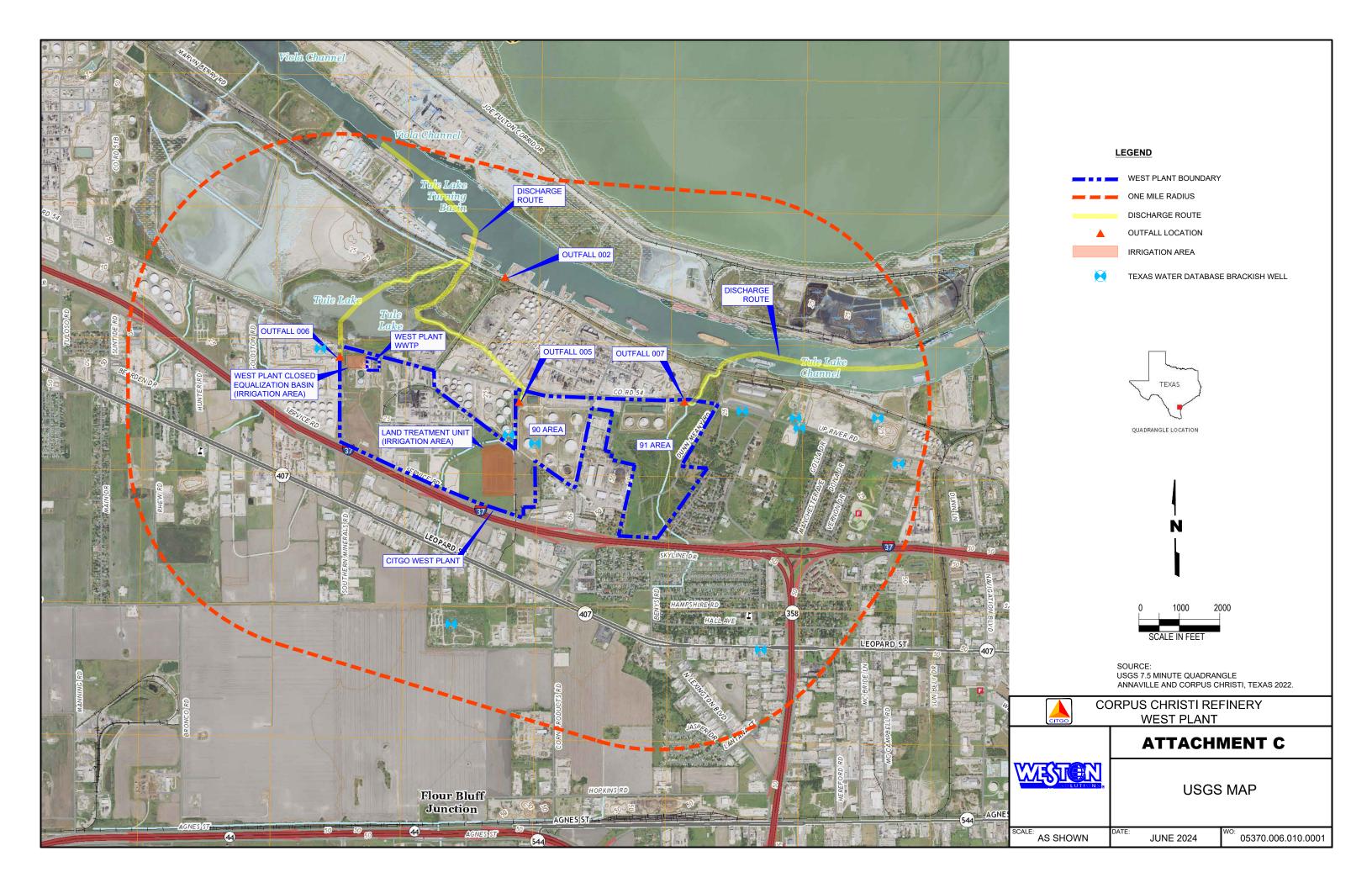
El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar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

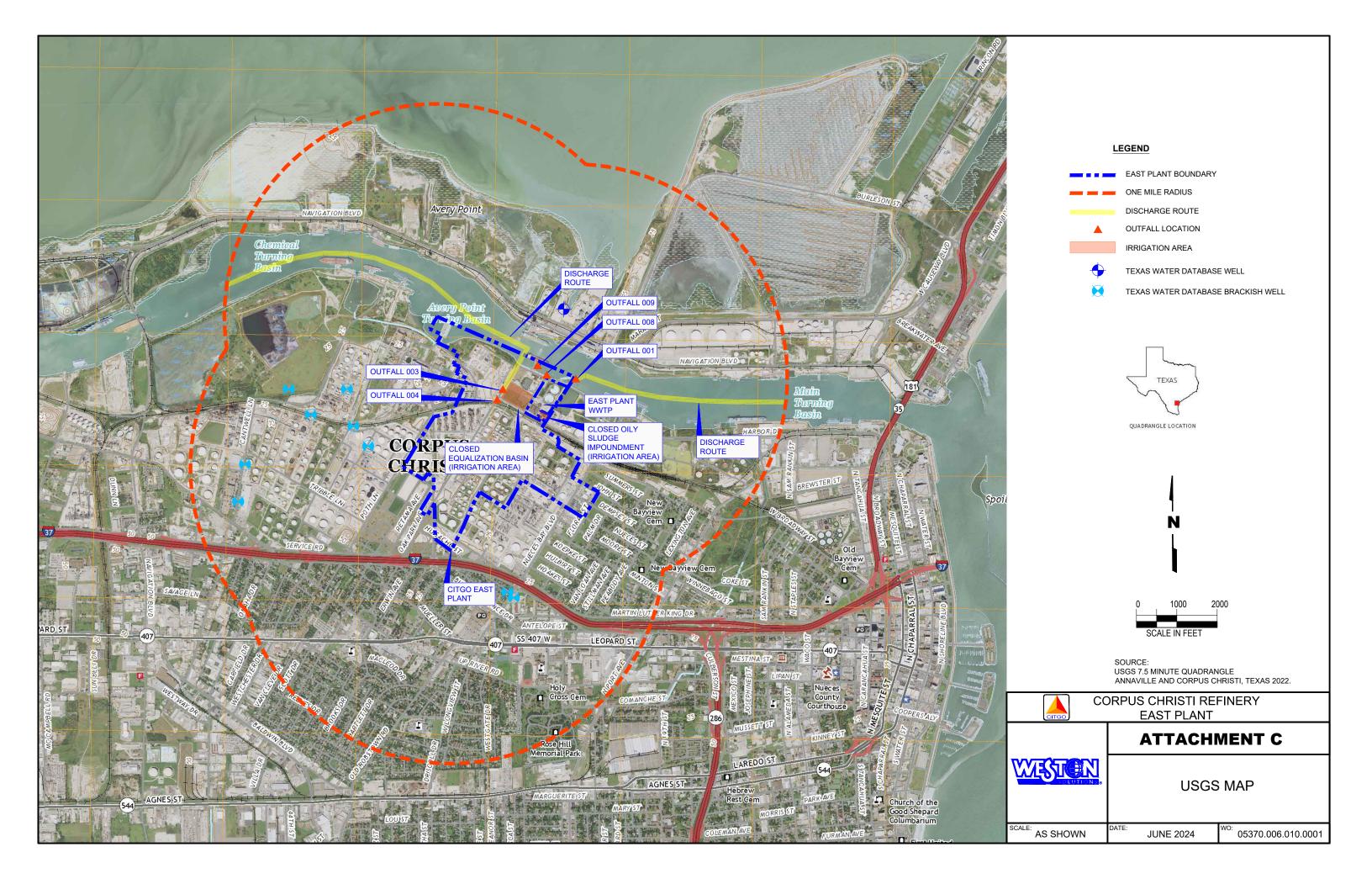
CITGO Refining and Chemicals Company L.P. (CN600127922) opera CITGO Corpus Christi Refinery (RN102555166), una refinería de petróleo y una instalación de fabricación de productos químicos. La instalación está ubicada en 1801 Nueces Bay Blvd. (Planta Este) y 7350 IH-37 (Planta Oeste), en Corpus Christi, Condado de Nueces, Texas 78407 (Planta Este) y 78409 (Planta Oeste). Esta solicitud solicita una renovación de este permiso, que autoriza que una descarga de aguas residuales industriales no exceda un promedio diario de 3.5 millones de galones por día a través del Emisario 001, una descarga de aguas residuales industriales que no exceda un promedio diario de 1.6 millones de galones por día a través del Emisario 002, y aguas pluviales intermitentes con pequeños volúmenes de aguas residuales no procesables descargadas desde el Emisarios 003, 004, 005, 006, 007, 008 y 009.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno. sólidos suspendidos totales, demanda química de oxígeno, aceite y grasa, amoníaco, sulfuro, fluoruro, compuestos fenólicos, cromo (total y hexavalente), enterococos (solo Emisario 2) y cloro residual (solo Emisario 1). Para los emisarios de aguas pluviales (Emisarios 003-009), se espera que las descargas contengan carbono orgánico total y aceite y grasa. Además, se espera que los Emisarios 003 y 009 contengan benceno, tolueno, etilbenceno, xilenos totales y cromo total, y se espera que el Emisario 009 contengan cobre. Las aguas residuales de proceso, la purga de la torre de enfriamiento, la purga de la caldera, las aguas residuales de los servicios públicos y la escorrentía de aguas pluviales del área de proceso se descargan a través de los Emisarios 001 y 002. El agua de lastre y las aguas subterráneas recuperadas pueden descargarse en el Emisario 001 y las aguas residuales domésticas tratadas se descargan a través del Emisario 002. Las aguas pluviales con pequeños volúmenes de aguas residuales no procesadas se descargan a través de los Emisarios 003, 004, 005, 006, 007, 008 y 009. Aguas residuales descargadas a través de los Emisarios 001 o 002 están tratado por un interceptor de placas coalescentes, floculación, flotación por aire disuelto, cuencas de preaireación, digestores aeróbicos y clarificadores.

ATTACHMENT D

USGS QUAD MAP





ATTACHMENT E

SUPPLEMENTAL PERMIT INFORMATION

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:	
Application type:RenewalMajor Am	endmentMinor AmendmentNew
County:	_ Segment Number:
Admin Complete Date:	_
Agency Receiving SPIF:	
Texas Historical Commission	U.S. Fish and Wildlife
Texas Parks and Wildlife Department	U.S. Army Corps of Engineers

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

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

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

The following applies to all applications:

1. Permittee: Citgo Refining and Chemicals Company, L.P.

Permit No. WQ00 <u>00467000</u>

EPA ID No. TX <u>0006211</u>

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

East Plant: 1801 Nueces Bay Blvd., Corpus Christi, Nueces County. West Plant: 7350 IH-37, Corpus Christi, Nueces County.

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

Prefix (Mr., Ms., Miss): <u>Ms.</u> First and Last Name: <u>Veronica Fuentes</u> Credential (P.E, P.G., Ph.D., etc.): Title: <u>Manager of Environmental Affairs</u> Mailing Address: <u>P.O. Box 9176</u> City, State, Zip Code: <u>Corpus Christi, TX 78469</u> Phone No.: <u>361.844.5433</u> Ext.: E-mail Address: vfuente@citgo.com

- 2. List the county in which the facility is located: <u>Nueces</u>
- If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.
 Not applicable
- 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.

Outfalls 001, 002, 008 and 009 discharge directly to the Corpus Christi Inner Harbor in Segment 2484 of the Bays and Estuaries. Outfalls 003 and 004 discharge to Oak Park Ditch, thence to Corpus Christi Inner Harbor. Outfall 005 discharges to an unnamed tributary of Tule Lake, thence to Tule Lake; Outfall 006 discharges to an unnamed ditch, thence to Tule Lake; and Tule Lake discharges to the Corpus Christi Inner Harbor. Outfall 007 discharges to an unnamed ditch, thence to the Corpus Christi Inner Harbor.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

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

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

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

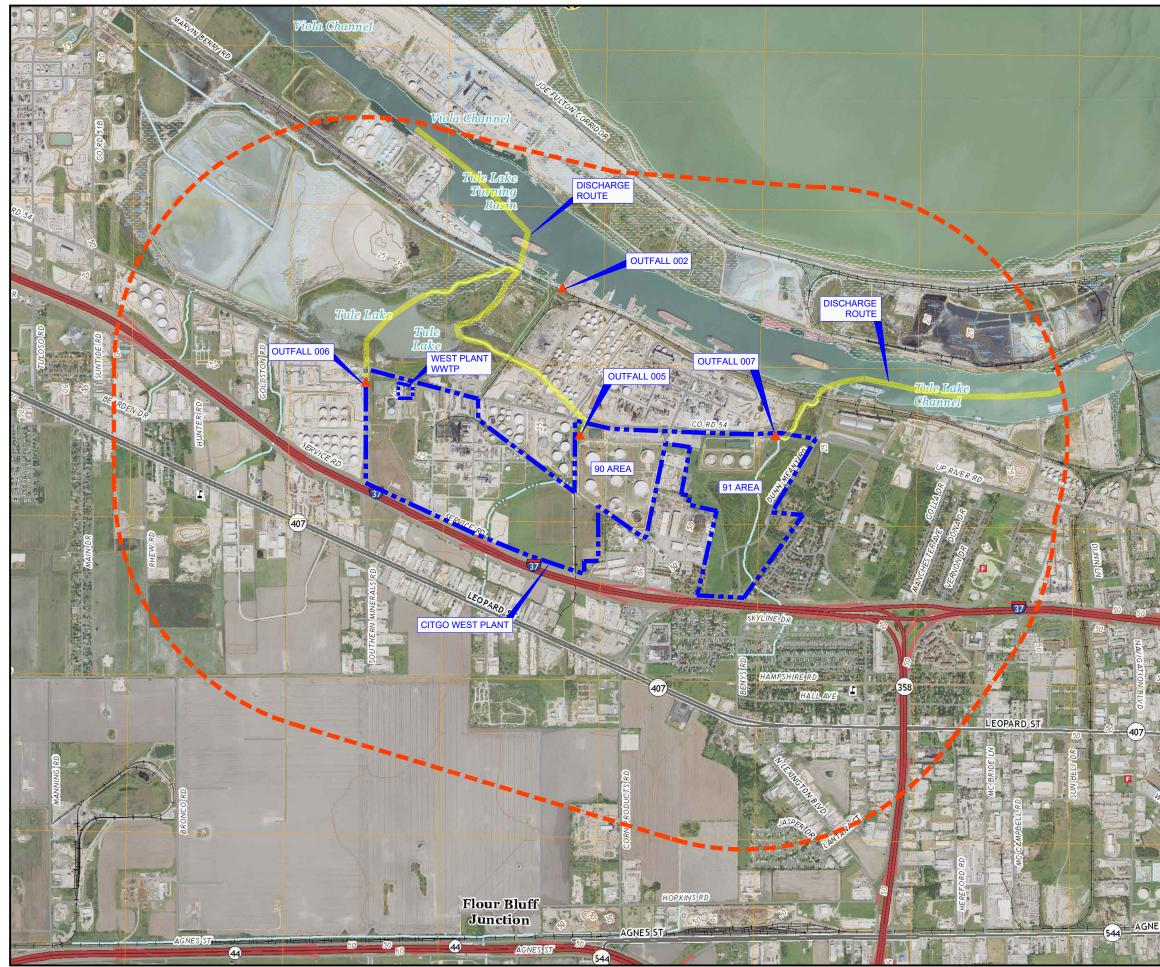
- □ Sealing caves, fractures, sinkholes, other karst features
- Disturbance of vegetation or wetlands
- 1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Not applicable

2. Describe existing disturbances, vegetation, and land use: The facility has been developed as a petroleum refinery.

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

- 3. List construction dates of all buildings and structures on the property: N/A
- 4. Provide a brief history of the property, and name of the architect/builder, if known. N/A



LEGEND WEST PLANT BOUNDARY ONE MILE RADIUS DISCHARGE ROUTE OUTFALL LOCATION			
DISCHARGE ROUTE			
DISCHARGE ROUTE			
OUTFALL LOCATION			
TEXAS QUADRANGLE LOCATION			
0 1000 2000 SCALE IN FEET			
SOURCE: USGS 7.5 MINUTE QUADRANGLE ANNAVILLE AND CORPUS CHRISTI, TEXAS 2022.			
CORPUS CHRISTI REFINERY WEST PLANT			
SPIF MAP			
^{SCALE:} AS SHOWN DATE: JUNE 2024 WO: 05370.006.010.0001			



LEGEND			
EAST PLANT BOUNDARY			
i <u> </u>	ONE MILE RADIUS		
DISCHARGE ROUTE			
À	OUTFALL LOCATION		
QUADRANGLE LOCATION			
0 1000 2000 SCALE IN FEET			
SOURCE: USGS 7.5 MINUTE QUADRANGLE ANNAVILLE AND CORPUS CHRISTI, TEXAS 2022.			
CORPUS CHRISTI REFINERY EAST PLANT			
	ATTACHMENT E		
	SPIF MAP		
SCALE: AS SHOWN	DATE: JUNE 2024	^{wo:} 05370.006.010.0001	
		LJ	

ATTACHMENT F

WASTEWATER GENERATING PROCESSES

Wastewater Generating Processes

In the East Plant, process wastewaters are generated in the Terminal, Utilities, Universal Dow Extraction (UDEX) Unit, Cumene Unit, ADP Unit, Cyclohexane Unit, Crude Unit, #1 Fluid Catalytic Cracking Unit (FCCU), #2 FCCU, Unibon Unit, #4 Naphtha Hydrotreating (NHT) Unit, #4 Platformer Unit, Saturated (Sat) Gas Unit, and Sulfur Recovery Unit. The East Plant also includes the Gasoline Hydrotreater. The East Plant has its own wastewater treatment plant (WWTP) and discharges via Outfall 001.

In the West Plant, process wastewaters are generated in the Terminal, Utilities, #5 NHT, #5 Platformer, MDH, Coker, and Sulfur Recovery Units. The West Plant also receives ballast water and recovered groundwater. Wastewater and process area stormwater from the Ultra Low Sulfur Diesel (ULSD) Unit are routed to the West Plant WWTP. The ULSD does not significantly impact the quality or quantity of wastewater routed to the treatment system. The West Plant discharges via Outfall 002.

The primary waste streams generated at the refineries are process wastewater, ballast water (Outfall 001), and contaminated stormwater runoff, each of which are subject to Subpart B – Cracking Subcategory of the petroleum refinery effluent guidelines limitations promulgated under 40 Code of Federal Regulations (CFR) Part 419. Stormwater runoff from all production units is considered contaminated runoff and is routed to the wastewater treatment system.

Minor wastewater sources routed to the wastewater systems include:

- Drainage and spillage from the ship docks and truck and railcar loading racks.
- Hydrostatic test waters, including that from tanks and pipelines.
- Steam condensate.
- Heat exchanger bundle cleaning wastewater.
- Waterline and fire protection system flushing.
- Water from the washing of process units, pavement, buildings, equipment, and vehicles.
- Stormwater runoff from non-process areas.
- Wastewater from sludge treatment units.
- Remediation cleanup liquids and recovered groundwater.
- Tank draws and tank water bottoms.
- Water treatment wastes including RO reject and filtration reject.
- Cooling tower and boiler blowdown.
- Laboratory wastes.
- Air conditioner condensate, compressor condensate, and condensate that forms externally on steam lines.

Off-site wastes are characterized on the following page.

OFF-SITE WASTES

Description of Relation of Waste Sources with Facility's Activities

Off-site wastes are generated at CITGO operations supporting the refinery, which are located nearby; these include the Deep Sea Terminal (DST), Port Avenue Terminal (PAT), and pipeline operations. These facilities have the same legal owner as the permittee.

Sources of Wastes Received

Legal Name: CITGO Refining and Chemicals Company L.P.

RN102612488 – Deep Sea Terminal (DST)
Location: 4809 Up River Road, Corpus Christi, Texas 78407
RN102418258 – Port Avenue Terminal (PAT)
Location: 2505 N Port Avenue, Corpus Christi, Texas 78401
Citgo Pipeline Operations

List of Wastes Received

- Drainage and spillage from the ship docks and truck and railcar loading racks.
- Hydrostatic test waters, including that from tanks and pipelines.
- Steam condensate.
- Heat exchanger bundle cleaning wastewater.
- Waterline and fire protection system flushing.
- Water from the washing of process units, pavement, buildings, equipment, and vehicles.
- Wastewater from sludge treatment units.
- Remediation cleanup liquids and recovered groundwater.
- Tank draws and tank water bottoms.

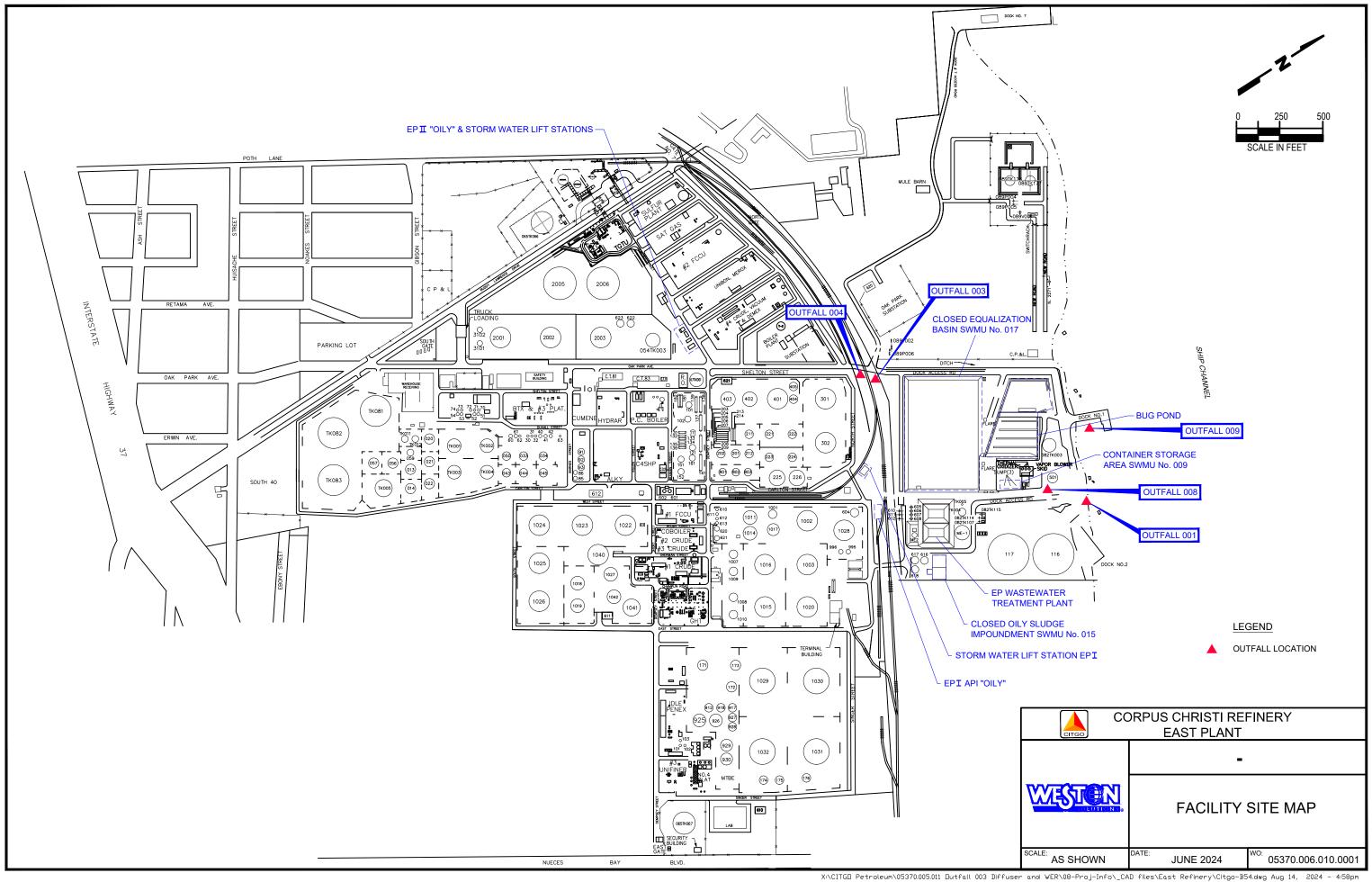
These off-site wastes are the same or similar in nature (e.g., mixtures of hydrocarbons and water) to wastes generated at the refinery, are readily treated by the WWTPs, and are fully compatible with wastes generated on-site.

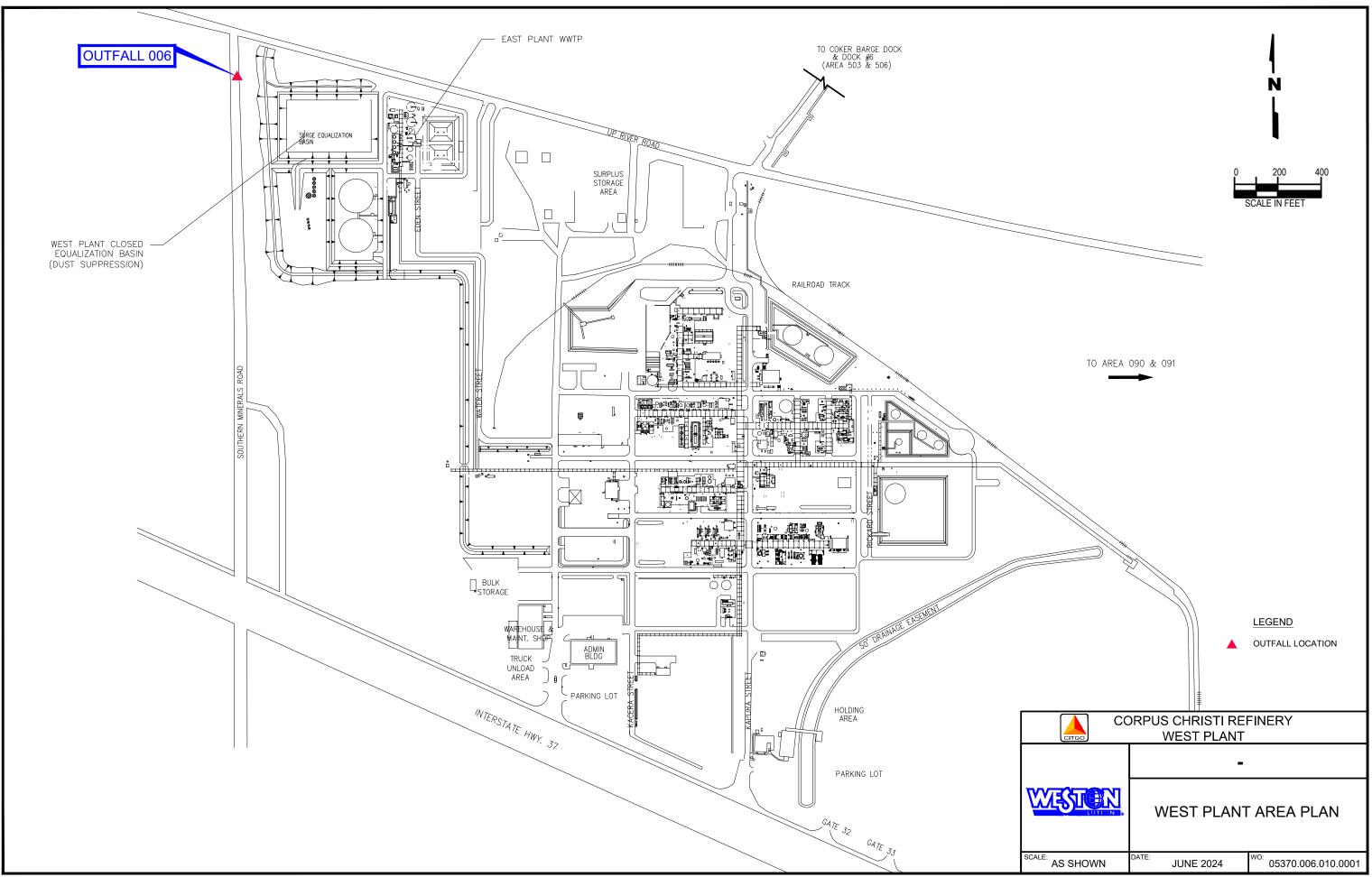
Volume of Wastes Received

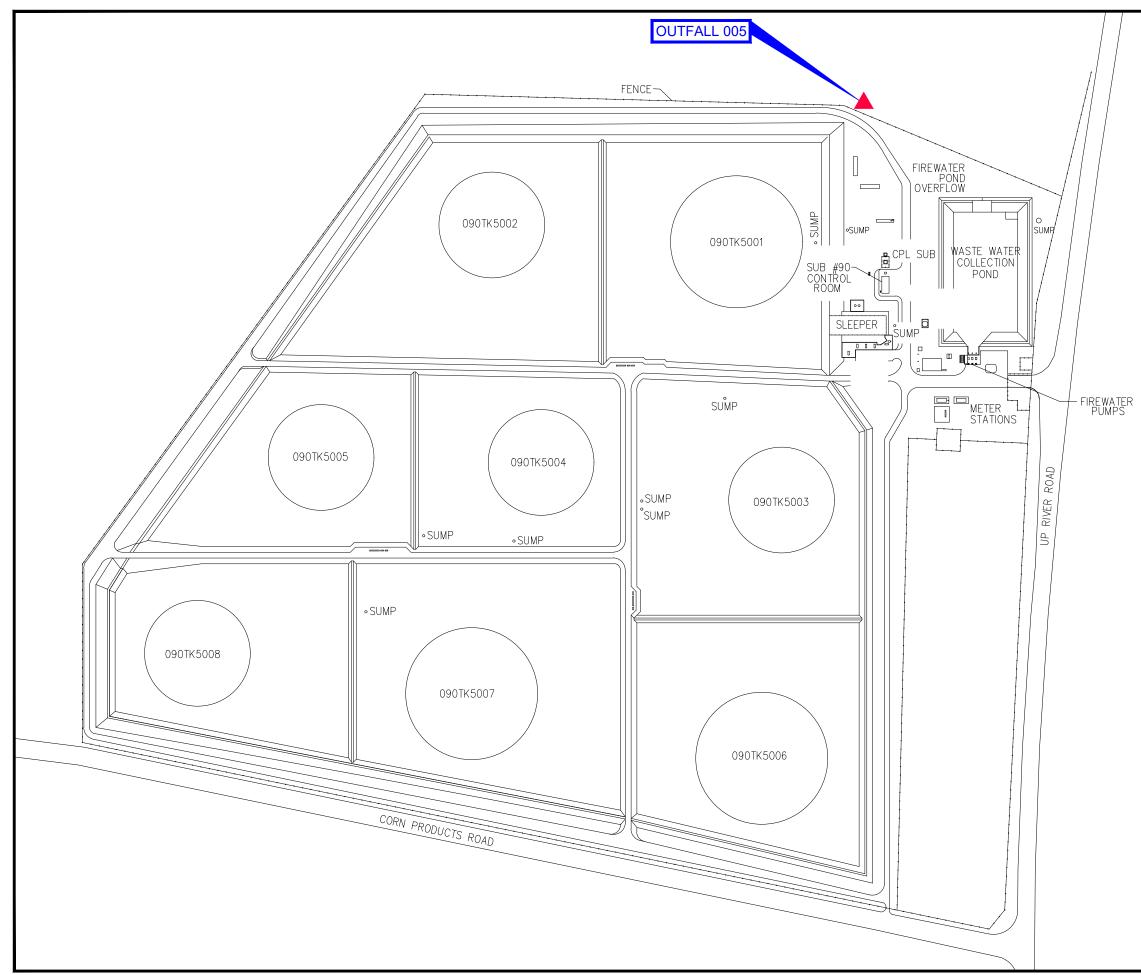
A few thousand gallons of wastewater is transported to either the East Plant or West Plant WWTP each day.

ATTACHMENT G

FACILITY MAPS





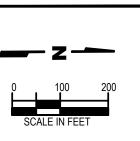


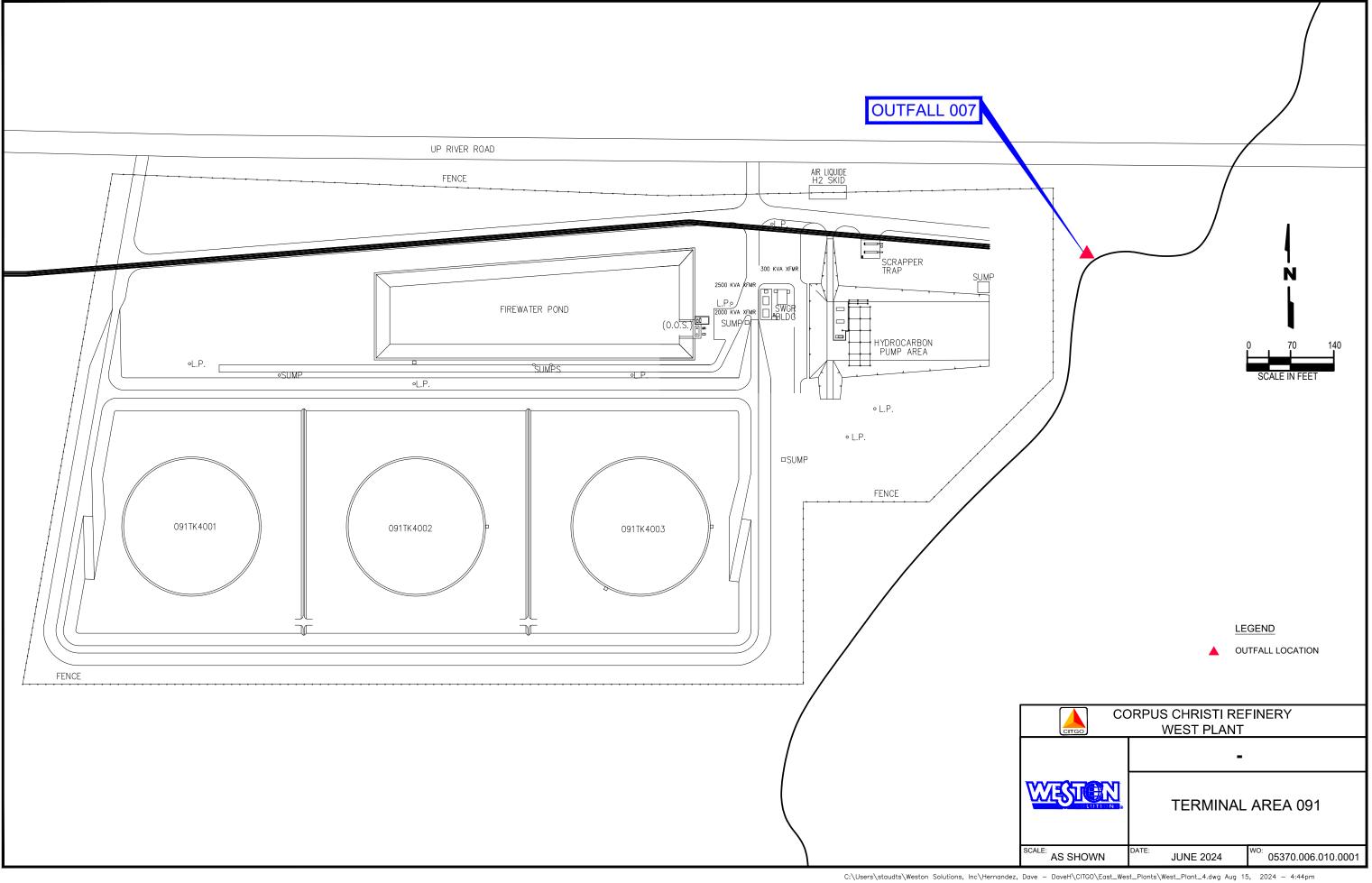
CC	ORPUS CHRISTI REI WEST PLANT	FINERY
	-	
	TERMINAL	AREA 090
SCALE: AS SHOWN	DATE: JUNE 2024	wo: 05370.006.010.0001
\Hernandez, Dave — DaveH\CiTGO\East_West_Plants\West_Plant_4.dwg Aug 15, 2024 — 4:44pm		



OUTFALL LOCATION

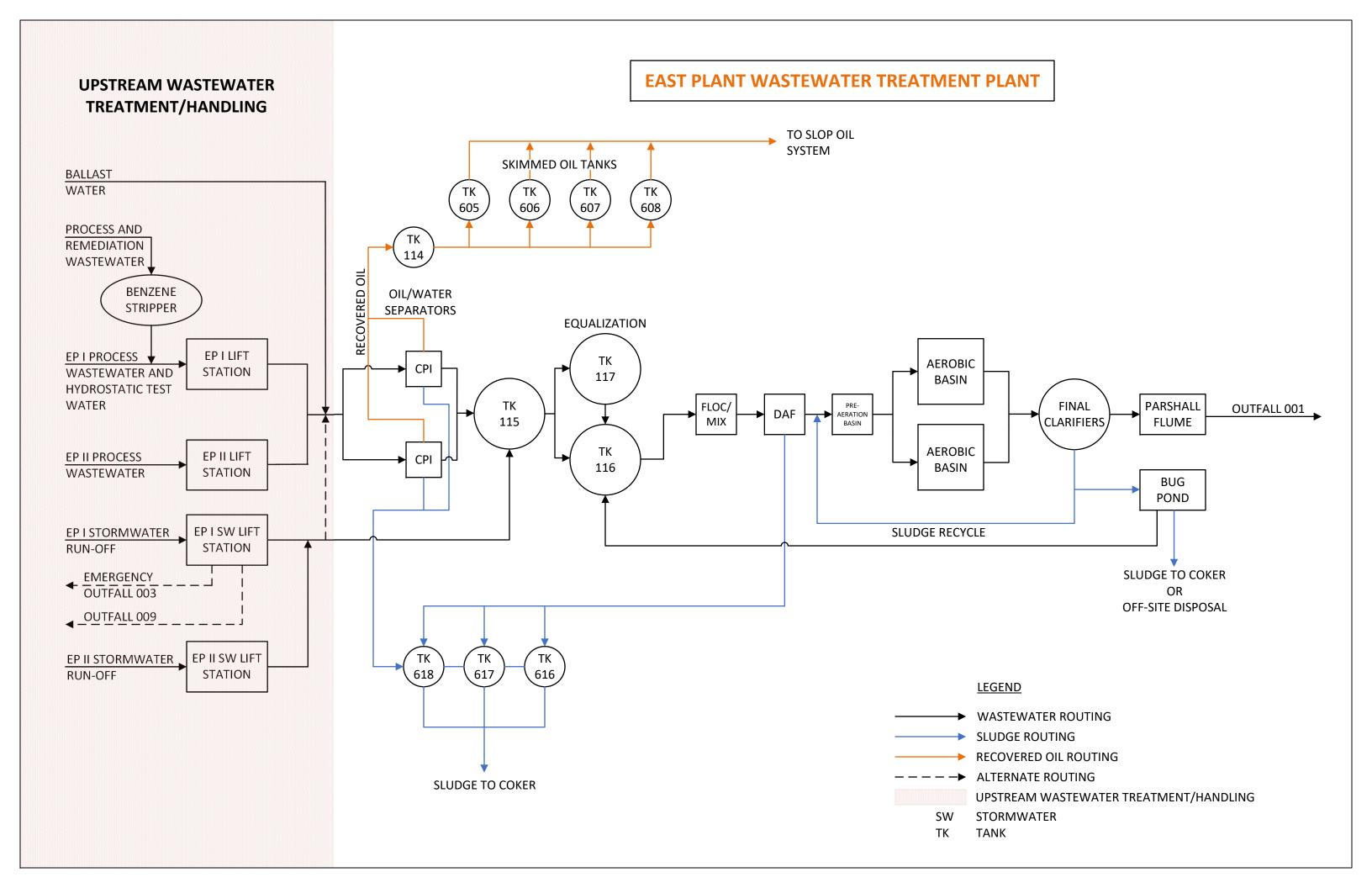
LEGEND



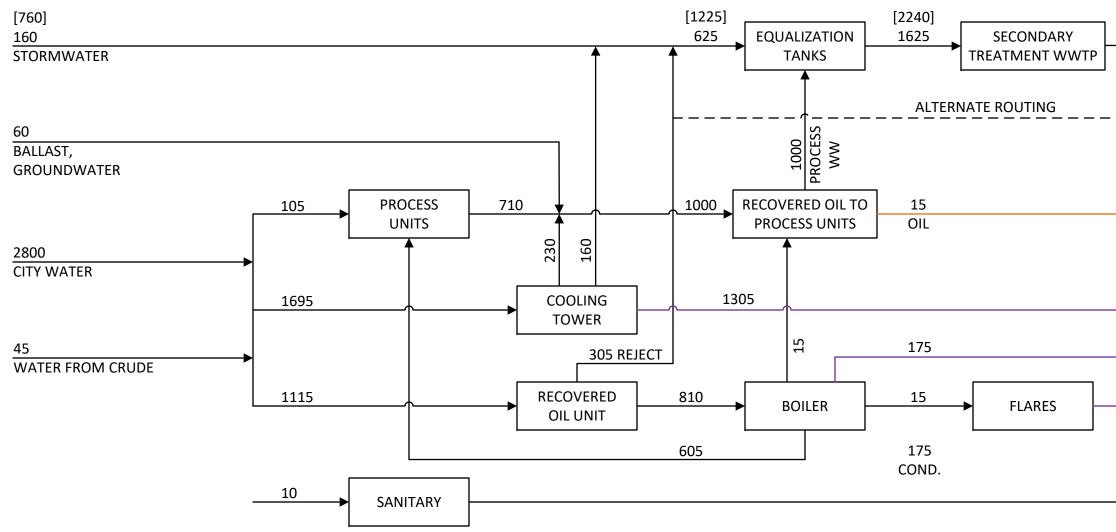


ATTACHMENT H

FLOW DIAGRAMS



EAST PLANT OUTFALL 001



NOTES/LEGEND

1) ALL FLOWS IN GPM.

2) [] DENOTES STORMWATER WORKOFF CASE

3) [PROCESS UNIT] 450 GPM SUBJECT TO REFINERY EFFLUENT GUIDELINES

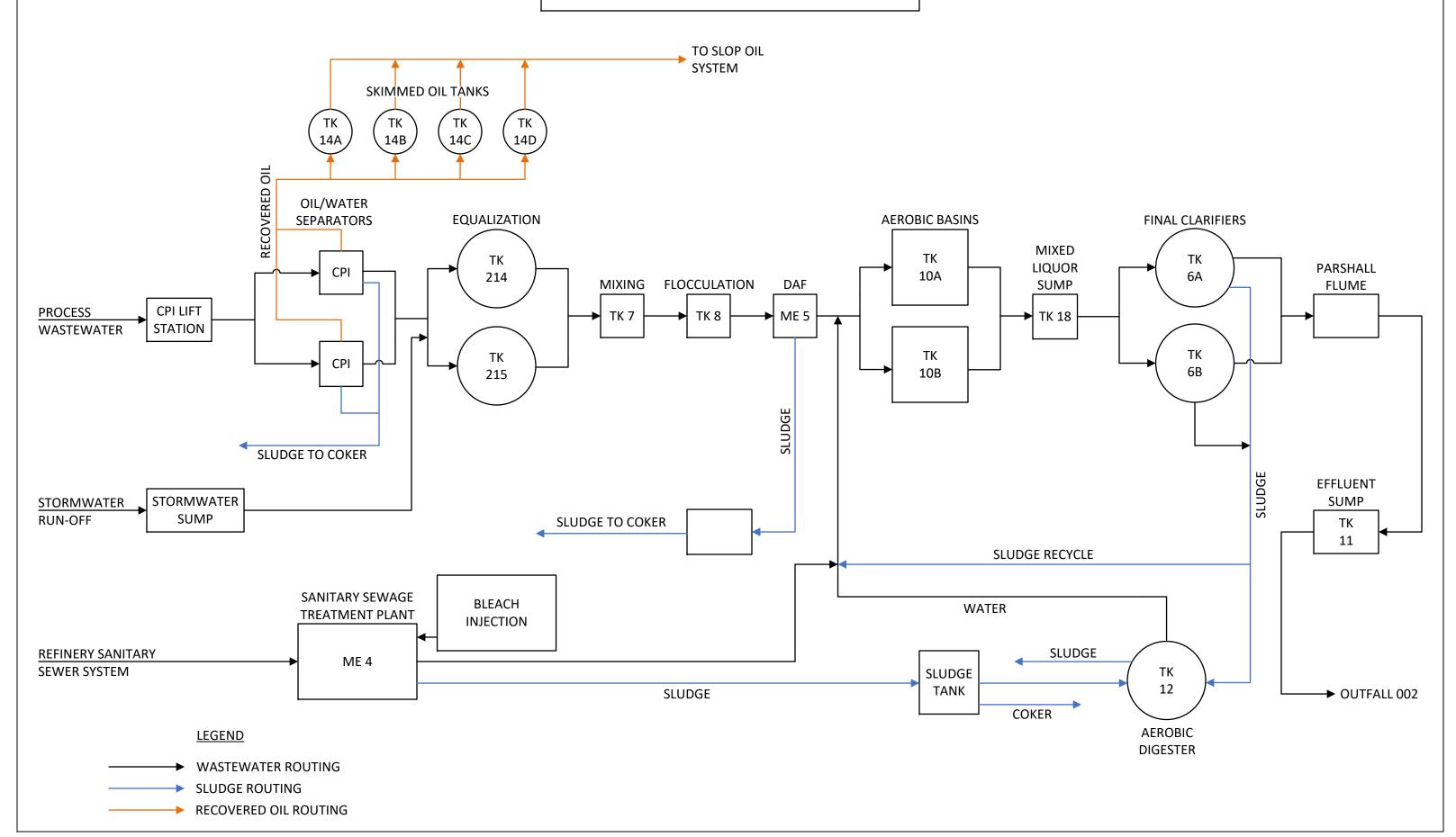
275 GPM FROM PROCESS UNITS NOT SUBJECT TO REFINERY EFFLUENT GUIDELINES

TO ATM

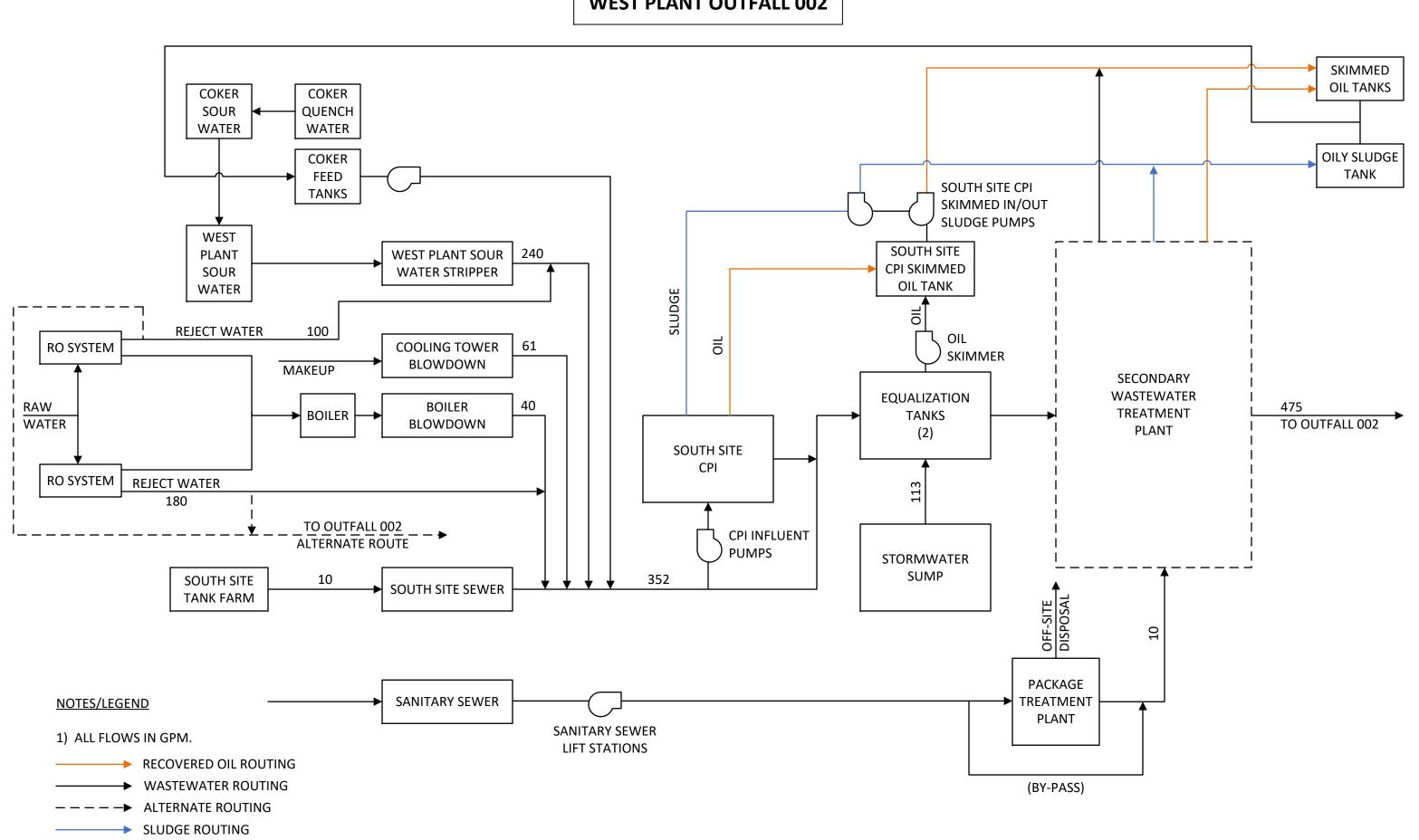
→ RECOVERED OIL ROUTING

	[2240] 1640	•
	TO OUTFALL 001	
i		
		•
	ΤΟ ΑΤΜ	•
	TO ATM	•
15	TO ATM	•
	10 TO POTW	•

WEST PLANT WASTEWATER TREATMENT



WEST PLANT OUTFALL 002



ATTACHMENT I

TECHNICAL REPORT ITEM 4 OUTFALLS 004-009 CONTRIBUTING WASTESTREAMS

Attachment I

Outfall Waste Stream Contributions

Outfall No. <u>004</u>

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Steam condensate	Variable	< 1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

Outfall No. 005

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Steam condensate	Variable	< 1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

Outfall No. <u>006</u>

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Steam condensate	Variable	< 1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

Outfall No. 007

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Steam condensate	Variable	< 1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

Outfall No. <u>008</u>

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Steam condensate	Variable	< 1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

Outfall No. 009

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	Variable	100
Cooling tower blowdown	Variable	< 1
Steam condensate	Variable	< 1
Fire monitor water	Variable	< 1
Hydrostatic test water	Variable	< 1

ATTACHMENT J

COOLING TOWER AND BOILER CHEMICAL SUMMARY TABLE AND SAFETY DATA SHEETS

Attachment J Summary of Cooling Tower and Boiler Chemicals (Outfalls 001 and 002) CITGO Corpus Christi Refinery

		Chemic	cal Information				Toxicit	у		Usa	age	
Manufacturer	Product ID Number	Product Use	Chemical Components	Weight Percentage	CAS Number	Species	Test Type	Duration	Test Result	Concentration In Blowdown	Frequency Of Product Use	
ChemTreat	BL 1260	Boiler Oxygen	Carbohydrazide	rbohydrazide 5-10 % 497-18-7	497-18-7	Fathead Minnow	LC50	96h	159.32 mg/L	2 ppm	Constant	
Chemmeat	BL 1200	Scavanger	Garbonyurazide	5-10 %	497-10-7	Ceriodaphnia dubia	LC50	48h	158.38 mg/L	2 ppm	COnstant	
ChamTreat	BL 1283	Boiler Oxygen	Diathydrydraudamina	15 40 %	3710-84-7	Fathead Minnow	LC50	96h	>1000 mg/L	1	Constant	
ChemTreat	BL 1283	Scavanger	Diethylhydroxylamine	15-40 %	3/10-84-7	Ceriodaphnia dubia	LC50	48h	87.6 mg/L	– 1 ppm	Constant	
ChemTreat	BL 1513	Steam Corrosion	Morpholine	10-30 %	110-91-8	Fathead Minnow	LC50	96h	354 mg/L	- 0.5 ppm	Constant	
Chemmeat	BE 1313	Protection	Cyclohexylamine	10-30 %	108-91-8	Ceriodaphnia dubia	LC50	48h	85.4 mg/L	0.5 ppm	Constant	
						Fathead Minnow	LC50	96h	659.75 mg/L			
			Cyclohexylamine	10-30 %	108-91-8	Tatlieau Pillillow	LC50	48h	1025 mg/L			
		Steam Corrosion	Cyclonexylamine	10-30 %	108-51-6	Ceriodaphnia dubia	LC50	48h	519.63 mg/L			
ChemTreat	BL 1559	Protection and				Daphnia pulex	LC50	48h	277 mg/L	0.5 ppm	Constant	
Chemineat	BL 1559					Mysid Shrimp	LC50	24h	406 mg/L	0.5 ppm	Constant	
		Inhibition	3-Methoxypropylamine	10-30 %	5000 70 0	Mysiu Sinnip	LC50	48h	330 mg/L			
			з-метнохургоруталине	10-30 %	5332-73-0	Internet City and de	LC50	24h	637 mg/L			
						Inland Silverside	LC50	96h	470 mg/L			
ChemTreat BL 4357 Boiler Scale diphos Inhibition			Boiler Scale	1-Hydroxyethylidene-1, 1- diphosphonic acid,	phonic acid, 1-5 %	3794-83-0	Fathead Minnow	LC50	48h	2333 mg/L		_
	BL 4357	Inhibition	tetrasodium salt			LC50	96h	2176 mg/L	100 ppm	Constant		
			Sodium hydroxide	4.5%	1010 70 0	Ceriodaphnia dubia	LC50	48h	854 mg/L	1		
				Sodium hydroxide	1-5%	1310-73-2	Daphnia pulex	LC50	48h	1768 mg/L	1	
			Chlorotolyltriazole sodium salt	10-20 %	202420-04-0	Fathead Minnow	LC50	96h	44.1 mg/L			
		Cooling Water	Dichlorotolyltriazole	2.5-10%	N/A							
ChemTreat	CL 4132 Cc	Corrosion Inhibitor and Biocide	Sodium 4(or 5) - methyl- 1H-benzotriazolide	1-5%	64665-57-2	Ceriodaphnia dubia	LC50	48h	108 mg/L	20 ppm	Constant	
			Sodium hydroxide	1-5%	1310-73-2							
ChomTroot	ChemTreat CL 5692 Cooling Water Corrosion and Not listed N/A Scale Inhibitor	-	Notlisted	N/A	N/A	Fathead Minnow	LC50	96h	5946 mg/L	Product not in use,	Constant	
Cnemireat		CL 3092		Notusted IV/A IV/A	N/A N/A -	Ceriodaphnia dubia	LC50	48h	1786 mg/L	but typically would be 100 ppm	Considiit	
ChemTreat	CL 5694	Cooling Water Corrosion Inhibitor	Chlorotolyltriazole sodium salt	1-5%	202420-04-0	Fathead Minnow	LC50	96h	427 mg/L	120 ppm	Constant	
and Bioc		and Biocide	Sodium hydroxide	10-30%	1310-73-2	Ceriodaphnia dubia	LC50	48h	1768 mg/L	1	I	





MATERIAL SAFETY DATA SHEET

ChemTreat BL1260

ChemTreat, Inc.

(703) 527–3887

4461 Cox Road Glen Allen, VA 23060

(800) 648-4579

May 10, 2011

Boiler Water Treatment

(800) 424–9300 (Toll Free)

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number:

Address (Corporate Headquarters):

Telephone Number for Information: Date of MSDS:

Section 2. Hazard(s) Identification

Signal Word:	WARNING!	\checkmark
Hazard Statement(s):	May be harmful in contact with skin. Harmful if inhaled. Harmful if swallowed.	
Precautionary Statement(s):	No significant health risks are expected from exposures under norm conditions of use.	nal

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Carbohydrazide	497-18-7	5 - 10

Section 4. First Aid Measures

Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin:	Wash with plenty of soap and water. Call a poison center or doctor/physician if you feel unwell.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.





Notes to Physician:	N/A
Additional First Aid Remarks:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Carbon monoxide, carbon dioxide, or hydrazine may be released in a fire.
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for Cleaning up:	Contain and recover liquid when possible. Flush spill area with water spray.
Other Statements:	None.

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only.





Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
Carbohydrazide		N/E

Carcinogenicity Category

Component		Source	Code	Brief Description
Carbohydrazide				N/E
Engineering Controls:		Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.		
Personal Protection				
Eyes:		Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.		
Skin:	Wear by replace	Maintain quick–drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.		gloves. Wash them after each use and ons warrant, wear protective clothing
Respiratory:	cartridg	ng occurs, us ge respirator 910.134.	se NIOSH a with a dust	approved organic vapor/acid gas dual /mist prefilter in accordance with 29

Section 9. Physical and Chemical Properties





Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Strong oxidizers, Strong acids
Hazardous Decomposition Products:	Hydrazine, Carbon dioxide, Carbon monoxide
Possibility of Hazardous Reactions:	None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
N/D				

Comments:

None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	159.32 mg/l
Ceriodaphnia dubia	48h	LC50	158.38 mg/l

Comments:

None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

DOT Classification

DOT Name:COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUIDTechnical Name:N/AHazard Class:Not D.O.T. Regulated.UN/NA#:N/APacking Group:N/A





Section 15. Regulatory Information

Inventory Status

United States (TSCA):	All ingredients listed.
Canada (DSL/NDSL):	All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Other Sections

		Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Carbohydrazide	N/A	N/A	N/A

Comments: None.

State Regulations

California Proposition 65:

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm: Hydrazine, <0.010%.

Special Regulations

Component	States
Carbohydrazide	None

International Regulations

Canada

WHMIS Classification:	N/A
Controlled Product Regulations (CPR):	N/A





Section 16. Other Information

HMIS Hazard Rating	
Health: Flammability: Physical Hazard: PPE:	1 0 0 X
Notes:	The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.
NSF:	N/A
FDA:	N/A
KOSHER:	This product has not been evaluated for Kosher approval.
FIFRA:	N/A
Other:	None

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL Short Term Exposure Limit	
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Regulatory Affairs Department





Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.





SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of MSDS: Revision Date: Revision Number: ChemTreat BL1283 Boiler Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 January 5, 2015 January 5, 2015 15010501AN

Section 2. Hazard(s) Identification

Signal Word:	WARNING
GHS Classification(s):	Eye damage/irritation – Category 2b Skin corrosion/irritation – Category 2 Acute Toxicity Inhalation – Category 4 Acute Toxicity Oral – Category 4
Hazard Statement(s):	Causes eye irritation. Causes skin irritation. Harmful if inhaled. Harmful if swallowed.
Precautionary Statement(s):	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well–ventilated area. Do not eat, drink, or smoke when using this product.





Section 3. Composition/Hazardous Ingredients

Component		CAS Registry #	Wt.%
Diethylhydroxylamine		3710-84-7	15 - 40
0	NT / A		
Comments	N/A		

Section 4. First Aid Measures

Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin:	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice/attention.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
Notes to Physician:	N/A
Additional First Aid Remarks:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Product does not sustain combustion as described in 49 CFR 173, Appendix H.	
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.	
Specific Hazards Arising from the Chemical:	Vapor is heavier than air. Product emits toxic gases or fumes under fire conditions.	
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.	





Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).	
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.	
Methods for Cleaning up:	Contain and recover liquid when possible. Flush spill area with water spray.	
Other Statements:	None.	

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Protect from heat and sources of ignition. Store above Freeze Point.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component		Source	Exposure Limits
Diethylhydroxylamine		N/E	N/E
Engineering Controls:	Use onl	y with ad	equate ventilation. The use of local ventilation is

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.





Personal ProtectionEyes:Wear chemical splash goggles or safety glasses with
full-face shield. Maintain eyewash fountain in work area.Skin:Maintain quick-drench facilities in work area.
Wear butyl rubber or neoprene gloves. Wash them after each
use and replace as necessary. If conditions warrant, wear
protective clothing such as boots, aprons, and coveralls to
prevent skin contact.Respiratory:If misting occurs, use NIOSH approved organic vapor/acid
gas dual cartridge respirator with a dust/mist prefilter in
accordance with 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

Physical State and Appearance: Specific Gravity: pH: Freezing Point: Flash Point: Odor: Melting Point: Boiling Point: Boiling Point: Solubility in Water: Evaporation Rate: Vapor Density: Molecular Weight: Viscosity: Flammable Limits:	Liquid, Light Straw, Clear 0.999 @ 20°C 11.3 @ 20°C, 100.0% 14°F 129°F Mild N/A N/D Complete N/D N/D N/D <100 CPS @ 20°C N/A
0	102
Density:	8.33 LB/GA
Vapor Pressure:	N/D
% VOC:	25.5
Odor Threshold	N/D
n-octanol Partition Coefficient	N/D
Decomposition Temperature	N/D

Section 10. Stability and Reactivity

Chemical Stability:

Stable at normal temperatures and pressures.

Incompatibility with Various Substances:

Strong oxidizers, Strong acids.





Hazardous Decomposition Products:

Oxides of carbon, Oxides of nitrogen.

Possibility of Hazardous Reactions: None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
Diethylhydroxylamine	Oral	LD50	2190 MG/KG	Rat
	Dermal	LD50	1300 MG/KG	Rabbit

Carcinogenicity Category

Component	Source	Code	Brief Description
Diethylhydroxylamine	N/E	N/E	N/E

Comments:

None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	>1000 mg/l
Ceriodaphnia dubia	48h	LC50	87.6 mg/l

Comments:

None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA ignitibility characteristic hazardous waste D001 when disposed of in the original product form.

Section 14. Transport Information

Controlling					Packing
Regulation	Proper Shipping Name:	Technical Name:	Hazard Class:	UN/NA#:	Group:
DOT	COMPOUND, INDUSTRIAL	N/A	Not D.O.T.	N/A	N/A
	WATER TREATMENT, LIQUID		Regulated		
IMDG	COMPOUND, INDUSTRIAL	N/A	Not D.O.T.	N/A	N/A
	WATER TREATMENT, LIQUID		Regulated		





Controlling					Packing
Regulation	Proper Shipping Name:	Technical Name:	Hazard Class:	UN/NA#:	Group:
TDG	COMPOUND, INDUSTRIAL	N/A	Not D.O.T.	N/A	N/A
	WATER TREATMENT, LIQUID		Regulated		
ICAO	COMPOUND, INDUSTRIAL	N/A	Not D.O.T.	N/A	N/A
	WATER TREATMENT, LIQUID		Regulated		

Note:

N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL):

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	Yes
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Other Sections

	Section 313	Section 302	
Component	Toxic Chemical	EHS TPQ	CERCLA RQ
Diethylhydroxylamine	N/A	N/A	N/A

All ingredients listed.

All ingredients listed.

Comments:

None.





State Regulations

California Proposition 65:

None known.

Special Regulations

Co	omponent	States
Di	iethylhydroxylamine	None.

International Regulations

Canada

WHMIS Classification:	D2B (Toxic Material) B3 (Combustible Liquid)
Controlled Product Regulations (CPR):	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16. Other Information

HMIS Hazard Rating

mang mazaru Kating	
Health: Flammability: Physical Hazard: PPE:	1 2 0 X
Notes:	The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.
NSF:	N/A
FDA/USDA/GRAS:	N/A
KOSHER:	This product is certified by the Orthodox Union as kosher pareve. Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Vernon, CA.





FIFRA:

N/A

Other:

None

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by:

Product Compliance Department; ProductCompliance@chemtreat.com

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MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number:

Address (Corporate Headquarters):

Telephone Number for Information: Date of MSDS:

Section 2. Hazard(s) Identification

Signal Word:

ChemTreat BL1513 Steam Line Treatment ChemTreat, Inc. (800) 424–9300 (Toll Free) (703) 527–3887 4461 Cox Road Glen Allen, VA 23060 (800) 648-4579 January 5, 2011

Hazard Statement(s):	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed.
Precautionary Statement(s):	Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use

DANGER!

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Morpholine	110-91-8	10 - 30
Cyclohexylamine	108-91-8	10 - 30

only outdoors or in a well-ventilated area.





Section 4. First Aid Measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin:	Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re–use. Immediately call a poison center or doctor/physician.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
Notes to Physician:	N/A
Additional First Aid Remarks:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Negative results obtained in sustained combustion test.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Product may emit toxic gases or fumes under fire conditions.
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for Cleaning up:	Contain and recover liquid when possible. Flush spill area with water spray.
Other Statements:	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802.





Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Protect from heat and sources of ignition.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
Morpholine	ACGIH TLV	71 mg/m ³ TWA Skin
	OSHA PEL	70 mg/m³ TWA Skin
Cyclohexylamine	ACGIH TLV	41 mg/m ³ TWA

Carcinogenicity Category

Component		Source	Code	Brief Description
Morpholine		ACGIH	TLV-A4	Not classifiable as a human carcinogen.
		IARC	IARC-3	Unclassifiable as to carcinogenicity in humans
Cyclohexylamine		ACGIH	TLV-A4	Not classifiable as a human carcinogen.
Engineering Controls:		Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.		
Personal Protection				
Eyes:		Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.		
Skin:	Wear b replace	Maintain quick–drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.		
Respiratory:	cartridg	If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.		





Section 9. Physical and Chemical Properties

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Strong oxidizers, Acids, Copper/copper alloys, Lead
Hazardous Decomposition Products:	Ammonia, Oxides of carbon, Oxides of nitrogen
Possibility of Hazardous Reactions:	None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
Morpholine	Oral	LD50	1050 mg/kg	Rat
	Dermal	LD50	500 mg/kg	Rabbit
Cyclohexylamine	Oral	LD50	156 mg/kg	Rat
	Dermal	LD50	277 mg/kg	Rabbit

Comments:

None.





Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	85.4 mg/l
Fathead Minnow	96h	LC50	354 mg/l

Comments:

None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form. EPA ignitibility characteristic hazardous waste D001 when disposed of in the original product form.

Section 14. Transport Information

DOT Classification

DOT Name:	AMINES, LIQUID, CORROSIVE, N.O.S.
Technical Name:	(CYCLOHEXYLAMINE AND MORPHOLINE)
Hazard Class:	Corrosive
UN/NA#:	UN2735
Packing Group:	PGIII

Section 15. Regulatory Information

Inventory Status

United States (TSCA):	All ingredients listed.
Canada (DSL/NDSL):	All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	Yes
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No





Other Sections

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Morpholine	N/A	N/A	N/A
Cyclohexylamine	N/A	10000	10000

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Morpholine	MA, MN, PA, WA
Cyclohexylamine	MA, MN, NJ, NY, PA, WA

International Regulations

Canada

WHMIS Classification:	D2B (Toxic Material) E (Corrosive Material)
Controlled Product Regulations (CPR):	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16. Other Information

HMIS Hazard Rating

Health: Flammability: Physical Hazard: PPE:		2 2 0 X
Notes:		The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.
NSF:	N/A	





FDA:	All ingredients in this product are authorized in 21 CFR 173.310 for use as "Boiler Water Additives" where the steam may contact food.
KOSHER:	This product is certified by the Orthodox Union as kosher pareve. Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Vernon, CA.
FIFRA:	N/A
Other:	None

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Regulatory Affairs Department

Disclaimer

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SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of MSDS: Revision Date: Revision Number: ChemTreat BL1559 Steam Line Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 September 14, 2015 September 14, 2015 15091401AN

Section 2. Hazard(s) Identification

Signal Word:	DANGER
GHS Classification(s):	Skin corrosion/irritation – Category 1b Eye damage/irritation – Category 1 Acute Toxicity Oral – Category 4 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4
Hazard Statement(s):	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed.
Precautionary Statement(s):	Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area.
System of Classification Used:	Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise Classified:	None.





Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Cyclohexylamine	108-91-8	10 - 30
3-Methoxypropylamine	5332-73-0	10 - 30

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin:	Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re–use. Immediately call a poison center or doctor/physician.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
Notes to Physician:	N/A
Additional First Aid Remarks:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Product does not sustain combustion as described in 49 CFR 173, Appendix H.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Product may emit toxic gases or fumes under fire conditions.





Protective Equipment:

If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).	
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.	
Methods for Cleaning up:	Contain and recover liquid when possible. Flush spill area with water spray.	
Other Statements:	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802.	

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Protect from heat and sources of ignition. Store above Freeze Point.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
Cyclohexylamine	ACGIH	41 mg/m ³ TWA
	TLV	
3-Methoxypropylamine	N/E	N/E





Engineering Controls:	Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.	
Personal Protection		
Eyes:	Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.	
Skin:	Maintain quick-drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.	
Respiratory:	If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.	

Section 9. Physical and Chemical Properties

Physical State and Appearance: Specific Gravity: pH: Freezing Point: Flash Point: Odor: Melting Point: Initial Boiling Point and Boiling Range: Solubility in Water: Evaporation Rate: Vapor Density: Molecular Weight: Viscosity: Flammability (solid, gas): Flammability (solid, gas): Flammable Limits: Autoignition Temperature: Density:	Liquid, Colorless, Clear 0.964 @ 20°C 13.1 @ 20°C, 100.0% <-9°F 136°F Strong N/A 212°F Miscible N/D N/D <100 CPS @ 20°C N/D N/A N/A 8.04 LB/GA
Density:	8.04 LB/GA
Vapor Pressure:	<18 mmHg @ 20C
% VOC:	50
Odor Threshold	N/D
n–octanol Partition Coefficient	N/D
Decomposition Temperature	N/D





Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Strong oxidizers, Acids.
Hazardous Decomposition Products:	Oxides of carbon, Oxides of nitrogen.
Possibility of Hazardous Reactions:	None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
Cyclohexylamine	Oral	LD50	156 MG/KG	Rat
	Dermal	LD50	277 MG/KG	Rabbit
3-Methoxypropylamine	Oral	LD50	6260 MG/KG	Rat
	Oral	LD50	0.69 G/KG	Rat
	Dermal	LD50	>2 G/KG	Rabbit
	Oral	LD50	690 MG/KG	Rat

Carcinogenicity Category

Component	Source	Code	Brief Description
Cyclohexylamine	ACGIH	TLV-A4	Not classifiable as a human carcinogen.
3-Methoxypropylamine	N/E	N/E	N/E

Comments:

None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	519.63 mg/l
Daphnia pulex	48h	LC50	277 mg/l
Fathead Minnow	96h	LC50	659.75 mg/l
	48h	LC50	1025 mg/l
Mysid Shrimp	24h	LC50	406 mg/l
	48h	LC50	330 mg/l
Inland Silverside	24h	LC50	637 mg/l
	96h	LC50	470 mg/l





Comments:

None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

EPA ignitibility characteristic hazardous waste D001 when disposed of in the original product form. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN2735	AMINES, LIQUID,	(CYCLOHEXYLAMINE AND	8	PGIII
		CORROSIVE, N.O.S.	3-METHOXYPROPYLAMINE)		
IMDG	UN2735	AMINES, LIQUID,	(CYCLOHEXYLAMINE AND	8	PGIII
		CORROSIVE, N.O.S.	3-METHOXYPROPYLAMINE)		
ICAO	UN2735	AMINES, LIQUID,	(CYCLOHEXYLAMINE AND	8	PGIII
		CORROSIVE, N.O.S.	3-METHOXYPROPYLAMINE)		
SCT	UN2735	AMINES, LIQUID,	(CYCLOHEXYLAMINE AND	8	PGIII
		CORROSIVE, N.O.S.	3-METHOXYPROPYLAMINE)		
TDG	UN2735	AMINES, LIQUID,	(CYCLOHEXYLAMINE AND	8	PGIII
		CORROSIVE, N.O.S.	3-METHOXYPROPYLAMINE)		

Note:

N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed. All ingredients listed.





Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: Reactive Hazard:	Yes No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Other Sections

	Section 313	Section 302	
Component	Toxic Chemical	EHS TPQ	CERCLA RQ
Cyclohexylamine	N/A	10000	10000
3-Methoxypropylamine	N/A	N/A	N/A

Comments:

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Cyclohexylamine	MA, MN, NJ, NY, PA, WA
3-Methoxypropylamine	MN, PA

None.

International Regulations

Canada

WHMIS Classification:	D2B (Toxic Material) E (Corrosive Material)
Controlled Product Regulations (CPR):	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.





Compliance Information

NSF:		N/A
FDA/USDA/GRAS:		N/A
KOSHER:		This product has not been evaluated for Kosher approval.
FIFRA:		N/A
Other:		None
Comments:	None.	

Section 16. Other Information

HMIS Hazard Rating

Health:	2
Flammability:	2
Physical Hazard:	0
PPE:	X
Notes:	The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks.

their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average

The end-user must determine if the code is appropriate for





Abbreviation	Definition
UNK	Unknown
Prepared by:	Product Compliance Department; ProductCompliance@chemtreat.com
Revision Date:	September 14, 2015

Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.





SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of MSDS: Revision Date: Revision Number: ChemTreat BL4357 Boiler Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 September 14, 2015 September 14, 2015 15091401AN

Section 2. Hazard(s) Identification

Signal Word:	DANGER
GHS Classification(s):	Skin corrosion/irritation – Category 1b Eye damage/irritation – Category 1 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4 Acute Toxicity Oral – Category 4
Hazard Statement(s):	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed.
Precautionary Statement(s):	Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area.
System of Classification Used:	Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise Classified:	None.





Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
1-Hydroxyethylidene-1,1-diphosphonic acid, tetrasodium salt	3794-83-0	1 – 5
Sodium hydroxide	1310-73-2	1 – 5

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin:	Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re–use. Immediately call a poison center or doctor/physician.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
Notes to Physician:	N/A
Additional First Aid Remarks:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Product may emit toxic gases or fumes under fire conditions.
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.





Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for Cleaning up:	Contain and recover liquid when possible. Flush spill area with water spray.
Other Statements:	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802.

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Do not store or handle in aluminum, zinc, copper, or their alloys. Store above Freeze Point.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
1-Hydroxyethylidene-1,1-diphosphonic acid,	N/E	N/E
tetrasodium salt		
Sodium hydroxide	ACGIH	2 mg/m ³ Ceiling
	TLV	
	OSHA PEL	2 mg/m ³ TWA

Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.





Personal Protection

Eyes:	Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.
Skin:	Maintain quick-drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.
Respiratory:	If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

Physical State and Appearance: Specific Gravity: pH: Freezing Point:	Liquid, Straw, Clear 1.240 @ 20°C 12.9 @ 20°C, 100.0% 23°F
Flash Point:	N/D
Odor: Melting Point:	Mild N/A
Initial Boiling Point and Boiling Range:	212°F
Solubility in Water:	Complete
Evaporation Rate:	N/D
Vapor Density:	N/D
Molecular Weight:	N/D
Viscosity:	<100 CPS @ 20°C
Flammability (solid, gas):	N/D
Flammable Limits:	N/A
Autoignition Temperature:	N/A
Density:	10.34 LB/GA
Vapor Pressure:	N/D
% VOC:	0
Odor Threshold	N/D
n-octanol Partition Coefficient	N/D
Decomposition Temperature	N/D





Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Strong oxidizers, Acids.
Hazardous Decomposition Products:	Oxides of nitrogen, Oxides of carbon, Phosphines.
Possibility of Hazardous Reactions:	None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
Sodium hydroxide	Oral	LD50	300 MG/KG	Rat
	Dermal	LD50	1350 MG/KG	Rabbit

Carcinogenicity Category

Component	Source	Code	Brief Description
1-Hydroxyethylidene-1,1-diphosphonic acid,	N/E	N/E	N/E
tetrasodium salt			
Sodium hydroxide	N/E	N/E	N/E

Comments:

None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	854 mg/l
Daphnia pulex	48h	LC50	1768 mg/l
Fathead Minnow	48h	LC50	2333 mg/l
	96h	LC50	2176 mg/l

Comments:

None.





Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	UN1824	SODIUM HYDROXIDE	N/A	8	PGII
		SOLUTION			
TDG	UN1824	SODIUM HYDROXIDE	N/A	8	PGII
		SOLUTION			

Note:

N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed. All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Other Sections

Component		Section 302 EHS TPQ	CERCLA RQ
1-Hydroxyethylidene-1,1-diphosphonic acid,	N/A	N/A	N/A
tetrasodium salt			
Sodium hydroxide	N/A	N/A	1000





Comments:

None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
1-Hydroxyethylidene-1,1-diphosphonic acid, tetrasodium	None.
salt	
Sodium hydroxide	MA, MN, NY, PA, WA

International Regulations

Canada

WHMIS Classificati	on:	D2B (Toxic Material) E (Corrosive Material)
Controlled Product (CPR):	Regulati	ons This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
Compliance Information		
NSF:		N/A
FDA/USDA/GRAS:		N/A
KOSHER:		This product is certified by the Orthodox Union as kosher pareve. Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Vernon, CA.
FIFRA:		N/A
Other:		None
Comments:	None.	





Section 16. Other Information

HMIS Hazard Rating

Health:	2
Flammability:	0
Physical Hazard:	0
PPĚ:	Х

Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by:

Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date:

September 14, 2015





Disclaimer

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SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of SDS: Revision Date: Revision Number: ChemTreat CL4132 Cooling Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 February 29, 2016 February 29, 2016 16022901AN

Section 2. Hazard(s) Identification

Signal Word:	DANGER
GHS Classification(s):	Corrosive to Metals – Category 1 Skin corrosion/irritation – Category 1b Eye damage/irritation – Category 1 Hazardous to the Aquatic Environment Chronic – Category 3 Hazardous to the aquatic environment Acute – Category 3
Hazard Statement(s):	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects. H402 Harmful to aquatic life.
Precautionary Statement(s):	
Prevention:	P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P273 Avoid release into the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.





Response:	 P301 + 330 + 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P305 + P351 + P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 	
Storage:	P405 Store locked up.	
Disposal:	P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.	
System of Classification Used:	Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Hazards Not Otherwise Classified:	None.	

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Chlorotolyltriazole sodium salt	202420-04-0	10 – 20
Dichlorotolyltriazole	N/A	2.5 – 10
Sodium 4(or 5)-methyl-1H-benzotriazolide	64665–57–2	1 – 5
Sodium hydroxide	1310-73-2	1 – 5

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Inhalation:	Call a POISON CENTER or doctor/physician if you feel unwell.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin:	Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use. Immediately call a poison center or doctor/physician.





Ingestion:	Rinse mouth. Call a poison center or doctor/physician if you feel unwell.
Most Important Symptoms:	N/D
Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Containers exposed in a fire should be cooled with water to prevent vapor pressure build-up leading to rupture.
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for Cleaning up:	Contain and/or absorb spill with inert material then place in suitable container.
Other Statements:	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802.





Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Do not Freeze. Store above Freeze Point. If freezes, then must warm to freeze recovery temperature 68°F and then mechanical mixing is required.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component		Source	Exposure Limits	
Chlorotolyltriazole sodium salt		N/E	N/E	
Dichlorotolyltriazole		N/E	N/E	
Sodium 4(or 5)-methyl-1H-benzotriazolide		N/E	N/E	
Sodium hydroxide		ACGIH TLV	2 mg/m ³ Ceiling	
		OSHA PEL	2 mg/m³ TWA	
Engineering Controls:		e only with adequate ventilation. The use of local ventilation is ommended to control emission near the source.		
Personal Protection				
Eyes:	Eyes: Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.			
Skin:		Maintain quick–drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.		
Respiratory:			ccurs, wear a NIOSH–approved respirator with por Cartridges, in accordance with 29 CFR	





Section 9. Physical and Chemical Properties

Liquid, Dark Straw, Clear 1.161 @ 20°C 13.0 @ 20°C, 100.0% 12.2°F N/A Mild N/D N/D N/D N/D N/D N/D N/D N/D

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Strong acids, Strong oxidizers.
Hazardous Decomposition Products:	Oxides of carbon, Oxides of nitrogen, Hydrogen chloride.
Possibility of Hazardous Reactions:	None known.
Reactivity:	N/D
Conditions To Avoid:	N/D





Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species	
Sodium hydroxide	Oral	LD50	300 MG/KG	Rat	
	Dermal	LD50	1350 MG/KG	Rabbit	
ChemTreat CL4132	Oral	LD50	>5000 MG/KG	Rat	
	Dermal	LD50	>5000 MG/KG	Rat	

Carcinogenicity Category

Component	Source	Code	Brief Description
Chlorotolyltriazole sodium salt	N/E	N/E	N/E
Dichlorotolyltriazole	N/E	N/E	N/E
Sodium 4(or 5)-methyl-1H-benzotriazolide	N/E	N/E	N/E
Sodium hydroxide	N/E	N/E	N/E

Likely Routes of Exposure: N/D

Symptoms

Inhalation:		N/D
Eye Contact:		N/D
Skin Contact:		N/D
Ingestion:		N/D
Skin Corrosion/Irritation:	N/D	
Serious Eye Damage/Eye Irritation:	N/D	
Sensitization:	N/D	
Germ Cell Mutagenicity:	N/D	
Reproductive/Developmental Toxicity:	N/D	





Specific Target Organ Toxicity		
Single Exposure:		N/D
Repeated Exposure:		N/D
Aspiration Hazard:	N/D	
Comments:	None.	

Section 12. Ecological Information

Ecotoxicity

Species		Duration	Type of Effect	Test Results
Ceriodaphnia dubia		48h	LC50	108 mg/l
Fathead Minnow		96h	LC50	44.1 mg/l
Persistence and Biodegradability:	N/D			
Bioaccumulative Potential:	N/D			
Mobility In Soil:	N/D			
Other Adverse Effects:	N/D			
Comments:	None.			

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT		1 11 0	(SODIUM HYDROXIDE AND	8	PGII
			HALOGENATED AROMATIC		
			HETEROCYCLE SODIUM SALT)		





Note:

N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed. All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: Reactive Hazard:	No No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Other Sections

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Chlorotolyltriazole sodium salt	N/A	N/A	N/A
Dichlorotolyltriazole	N/A	N/A	N/A
Sodium 4(or 5)-methyl-1H-benzotriazolide	N/A	N/A	N/A
Sodium hydroxide	N/A	N/A	1000

Comments:

None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Chlorotolyltriazole sodium salt	None.
Dichlorotolyltriazole	None.
Sodium 4(or 5)-methyl-1H-benzotriazolide	None.
Sodium hydroxide	MA, MN, NY, PA, WA





International Regulations

Canad	da			
	WHMIS Classification:			D2B (Toxic Material) E (Corrosive Material)
	Controlled Product Regulations (CPR):		ions	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
Compliance	Information			
NSF:			N/A	
Food	Regulations:		N/A	
KOSH	IER:		This p	roduct has not been evaluated for Kosher approval.
FIFRA	A:		N/A	
Other	:		None	
Comments:		None.		

Section 16. Other Information

HMIS Hazard Rating

Health:	3
Flammability:	1
Physical Hazard:	0
PPÉ:	Х

Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.





Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by:

Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date:

February 29, 2016

Disclaimer

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SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of SDS: Revision Date: Revision Number: FlexPro® Plus CL5692 Cooling Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 July 12, 2019 July 12, 2019 19071201AN

Section 2. Hazard(s) Identification

Signal Word:	None
GHS Classification(s):	Non-Hazardous Substance
Hazard Statement(s):	Non-Hazardous Substance
Precautionary Statement(s):	No significant health risks are expected from exposures under normal conditions of use.
Prevention:	None.
Response:	None.
Storage:	None.
Disposal:	None.
System of Classification Used:	Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise Classified:	None.





Section 3. Composition/Hazardous Ingredients

Component		CAS Registry #	Wt.%
Components not listed are either non hazardous or in concentration of		N/A	N/A
less than 1%			
Comments	If chemical identit	y and/or exact percent	age of composition has been

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Inhalation:	Call a POISON CENTER or doctor/physician if you feel unwell.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin:	Call a poison center or doctor/physician if you feel unwell.
Ingestion:	Rinse mouth. Call a poison center or doctor/physician if you feel unwell.
Most Important Symptoms:	N/D
Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	None known.
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive–pressure, NIOSH approved, self–contained breathing apparatus.





Section 6. Accidental Release Measures

Personal Precautions:	Wear a self-contained breathing apparatus and appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for Cleaning up:	Contain and recover liquid when possible. Flush spill area with water spray.
Other Statements:	None.

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Store above Freeze Point.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
Components not listed are either non hazardous or in	N/E	N/E
concentration of less than 1%		

Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.





Personal Protection

Eyes:	Safety glasses are recommended if risk of eye contact.
Skin:	Wear appropriate chemical resistant gloves.
Respiratory:	None needed under normal conditions of use.

Section 9. Physical and Chemical Properties

Autoignition Temperature:N/ADensity:10.76 LB/GAVapor Pressure:<18 mmHg @ 68°F	Vapor Pressure: % VOC: Odor Threshold	<18 mmHg @ 68°F N/D N/D
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Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	None known.
Hazardous Decomposition Products:	None known.
Possibility of Hazardous Reactions:	None known.





Reactivity:	N/D
Conditions To Avoid:	N/D

Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
FlexPro® Plus CL5692	N/D	N/D	N/D	N/D

Carcinogenicity Category

Component		Source	Code	Brief Description
Components not listed are either non hazardous concentration of less than 1%	or in	N/E	N/E	N/E
Likely Routes of Exposure:	N/D			
Symptoms				
Inhalation:		N/D		
Eye Contact:		N/D		
Skin Contact:		N/D		
Ingestion:		N/D		
Skin Corrosion/Irritation:	N/D			
Serious Eye Damage/Eye Irritation:	N/D			
Sensitization:	N/D			
Germ Cell Mutagenicity:	N/D			
Reproductive/Developmental Toxicity:	N/D			
Specific Target Organ Toxicity				
Single Exposure:		N/D		
Repeated Exposure:		N/D		
Aspiration Hazard:	N/D			





Comments:

None.

Section 12. Ecological Information

Ecotoxicity

Species		Duration	Type of Effect	Test Results
Fathead Minnow		96h	LC50	5946 mg/l
Ceriodaphnia dubia		48h	LC50	1786 mg/l
Persistence and Biodegradability:	N/D			
Bioaccumulative Potential:	N/D			
Mobility In Soil:	N/D			
Other Adverse Effects:	N/D			
Comments:	None.			

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	N/A	COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID	N/A	N/A	N/A

Note:

N/A





Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL): All ingredients listed. All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	No
Chronic Health Hazard:	No

Other Sections

-		Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Components not listed are either non hazardous or in	N/A	N/A	N/A
concentration of less than 1%			

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Components not listed are either non hazardous or in	None.
concentration of less than 1%	





Compliance Information

NSF:	N/A	
Food Regulations:	N/A	
KOSHER:	This product has not been evaluated for Kosher approval.	
Halal:	This product has not been evaluated for Halal approval.	
FIFRA:	N/A	
Other:	None	
Comments:	None.	

Section 16. Other Information

HMIS Hazard Rating

Health:	0
Flammability:	1
Physical Hazard:	0
PPÉ:	Х

Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value





Abbreviation	Definition
TWA	Time Weight Average
UNK	Unknown
Prepared by:	Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date:

July 12, 2019

Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.





SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use: Supplier's Name: Emergency Telephone Number: Address (Corporate Headquarters):

Telephone Number for Information: Date of SDS: Revision Date: Revision Number: FlexPro® Plus CL5694 Cooling Water Treatment ChemTreat, Inc. (800)424–9300 (Toll Free) 5640 Cox Road Glen Allen, VA 23060 (800)648–4579 June 28, 2019 June 28, 2019 19062801AN

Section 2. Hazard(s) Identification

Signal Word:	DANGER			
GHS Classification(s):	Skin corrosion/irritation – Category 1b Eye damage/irritation – Category 1 Acute Toxicity Oral – Category 4 Acute Toxicity Inhalation – Category 4 Corrosive to Metals – Category 1			
Hazard Statement(s):	 H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H302 Harmful if swallowed. H332 Harmful if inhaled. H290 May be corrosive to metals. 			
Precautionary Statement(s):				
Prevention:	P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.			





Response:	 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P301 + 330 + 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P363 Wash contaminated clothing before reuse.
Storage:	P405 Store locked up. P406 Store in a corrosive resistant container with a resistant inner liner.
Disposal:	P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.
System of Classification Used:	Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazards Not Otherwise Classified:	None.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
Chlorotolyltriazole sodium salt	202420-04-0	1 – 5
Sodium hydroxide	1310–73–2	10 – 30

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.





Section 4. First Aid Measures

Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
Skin:	Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re–use. Immediately call a poison center or doctor/physician.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
Most Important Symptoms:	N/D
Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:	N/A

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Containers exposed in a fire should be cooled with water to prevent vapor pressure build-up leading to rupture.
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.





Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Methods for Cleaning up:	Contain and/or absorb spill with inert material then place in suitable container.
Other Statements:	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1–800–424–8802. Reportable Quantity of the product is 751 Gal.

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Store above Freeze Point.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
Chlorotolyltriazole sodium salt	N/E	N/E
Sodium hydroxide	ACGIH TLV	2 mg/m ³ Ceiling
	OSHA PEL	2 mg/m ³ TWA

Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.





Personal Protection

Eyes:	Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.
Skin:	Maintain quick-drench facilities in work area. Wear appropriate chemical resistant gloves.
Respiratory:	If misting occurs, wear a NIOSH–approved respirator with Organic Vapor Cartridges, in accordance with 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

Liquid, Brown, Clear 1.276 @ 20°C 13.7 @ 20°C, 100.0% 13.6°F N/A Mild N/D N/D N/D N/A Lighter than air N/D <100 CPS @ 20°C N/D N/A N/A 10.64 LB/GA <18 mmHg @ 68°F N/D N/D N/D N/D N/D





Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Strong acids, Strong oxidizers, Metals or metal oxides.
Hazardous Decomposition Products:	Oxides of carbon, Oxides of nitrogen, Hydrogen chloride, Oxides of sodium.
Possibility of Hazardous Reactions:	None known.
Reactivity:	N/D
Conditions To Avoid:	N/D

Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
Sodium hydroxide	Oral	LD50	300 MG/KG	Rat
	Dermal	LD50	1350 MG/KG	Rabbit
FlexPro® Plus CL5694	N/D	N/D	N/D	N/D

Carcinogenicity Category

Component	Source	Code	Brief Description
Chlorotolyltriazole sodium salt	N/E	N/E	N/E
Sodium hydroxide	N/E	N/E	N/E

Likely Routes of Exposure: N/D

Symptoms

Inhalation:	N/D
Eye Contact:	N/D
Skin Contact:	N/D
Ingestion:	N/D



Skin Corrosion/Irritation:	N/D	
Serious Eye Damage/Eye Irritation:	N/D	
Sensitization:	N/D	
Germ Cell Mutagenicity:	N/D	
Reproductive/Developmental Toxicity:	N/D	
Specific Target Organ Toxicity		
Single Exposure:		N/D
Repeated Exposure:		N/D
Aspiration Hazard:	N/D	
Comments:	None.	

Section 12. Ecological Information

Ecotoxicity

Species		Duration	Type of Effect	Test Results
Fathead Minnow		96h	LC50	427 mg/l
Ceriodaphnia dubia		48h	LC50	1768 mg/l
Persistence and Biodegradability:	N/D			
Bioaccumulative Potential:	N/D			
Mobility In Soil:	N/D			
Other Adverse Effects:	N/D			
Comments:	None.			







Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN1760	CORROSIVE LIQUIDS, N.O.S.	(SODIUM HYDROXIDE AND	8	PGII
			HALOGENATED AROMATIC		
			HETEROCYCLE SODIUM SALT)		
Over 751 GA	RQ UN1760	CORROSIVE LIQUIDS, N.O.S.	(SODIUM HYDROXIDE AND	8	PGII
			HALOGENATED AROMATIC		
			HETEROCYCLE SODIUM SALT)		

Note:

N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA): Canada (DSL/NDSL):

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

All ingredients listed.

All ingredients listed.





Other Sections

	Section 313 Section 302 EHS		
Component	Toxic Chemical	TPQ	CERCLA RQ
Chlorotolyltriazole sodium salt	N/A	N/A	N/A
Sodium hydroxide	N/A	N/A	1000

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Chlorotolyltriazole sodium salt	None.
Sodium hydroxide	MA, MN, NY, PA, WA

Compliance Information

NSF:		N/A
Food Regulations:		N/A
KOSHER:		This product has not been evaluated for Kosher approval.
Halal:		This product has not been evaluated for Halal approval.
FIFRA:		N/A
Other:		None
Comments:	None.	

Section 16. Other Information

HMIS Hazard Rating

Health:	3
Flammability: Physical Hazard:	1
PPÉ:	Х





Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE. The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by:

Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date:

June 28, 2019

Disclaimer

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ATTACHMENT K

STORMWATER MANAGEMENT

Stormwater Management

Outfalls 003-009 discharge stormwater associated with industrial activity with other wastes, such as hydrostatic test water and utility wastewaters. Process wastewater associated with production units are segregated, treated, and discharged via either Outfall 001 or 002.

The industrial process and activities that occur in Outfall 003-009 drainage areas include:

- Transport of raw materials, intermediates and products by pipe or truck
- Maintenance activities on piping, tanks, and equipment
- Equipment storage, vehicle parking
- Waste storage (dumpsters, drums)

ATTACHMENT L

PROCESS/NON-PROCESS WASTEWATER FLOWS

Table 1.0-1Process Wastewater Flows Subject to 40 CFR 419 Subpart B
(All to be Authorized for Discharge Under This Permit)

Description	Flow Rate (gpm)					
Outfall 001 (East Plant)						
Crude Desalting	180					
Crude Atmospheric Distillation	45					
Crude Vacuum Distillation	100					
Cracking/Coking: #1 FCC	20					
Cracking/Coking: #2 FCC	25					
Cracking/Coking: Gas Oil Hydrotreating	50					
Reforming Alkylation: #4 Catalytic Reforming	20					
Reforming Alkylation: HF Alkylation	10					
Total Outfall 001	450					
Outfall 002 (West Plant)						
Cracking/Coking: Delayed Coking	75					
Cracking/Coking: Heavy Distillate Hydrotreating	75					
Reforming Alkylation: #5 Catalytic Reforming	40					
Total Outfall 002	190					

Table 1.0-2Breakdown of Process and Non-Process Wastewater Flows(All to be Authorized for Discharge Under This Permit)

Description	Estimated Flow Rate (gpm) Subject to Refinery Effluent Guidelines 40 CFR 419	Flow not Subject to 40 CFR 419		
Outfall 001 (East Plant)				
Process Wastewater	450	275		
Reverse Osmosis Reject		305		
Cooling Tower Blowdown		390		
Boiler Blowdown		15		
Ballast and Recovered Groundwater		60		
Stormwater Run-off (171 acres)		667 ⁽¹⁾		
Outfall 002	2 (West Plant)			
Process Wastewater	190	50		
Reverse Osmosis Reject		280		
Cooling Tower Blowdown		61		
Boiler Blowdown		40		
Sanitary Sewage		10		
Wastewater from tank farms and pipelines		10		
Stormwater Run-off (29 acres)		113 (1)		

⁽¹⁾Estimated stormwater flows based on maximum recorded monthly rainfall (September -6.25 inches)

ATTACHMENT M

LABORATORY INFORMATION

ATTACHMENT M

ANALYTICAL TESTING LABORATORY INFORMATION

Laboratory Name	Eurofins Corpus Christi
Address	1733 N. Padre Island Drive, Corpus Christi, TX 78408
Phone Number	(210)344-9751
Email	Lindy.Maingot@et.eurofinsus.com
Range of	3/19/2024 - 7/25/2024
Sampling Dates	
Pollutants	Table 1:
Analyzed	• BOD (5-Day)
	• CBOD (5-Day)
	Chemical oxygen demand
	Total organic carbon
	 Dissolved oxygen
	Ammonia nitrogen
	Total suspended solids
	Nitrate nitrogen
	Total organic nitrogen
	Total phosphorus
	Oil and grease
	Total residual chlorine
	Total dissolved solids
	• Sulfate
	• Chloride
	• Fluoride
	• Total alkalinity (mg/L as CaCo3)
	• Temperature (°F)
	• pH (standard units)
	Table 2:
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Cadmium
	Chromium, total
	Chromium, hexavalent
	Chromium, trivalent
	Copper
L	

 Cyanide, available Lead Mercury Nickel
• Mercury
Nickel
• Selenium
• Silver
• Thallium
• Zinc
Table 3:
Acrylonitrile
Anthracene
• Benzene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
• Bis(2-chloroethyl)ether
• Bis(2-ethylhexyl)phthalate
Bromodichloromethane [Dichlorobromomethane]
Bromoform
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane [Dibromochloromethane]
Chloroform
Chrysene
 m-Cresol [3-Methylphenol]
 o-Cresol [2-Methylphenol]
 p-Cresol [4-Methylphenol]
• 1,2-Dibromoethane
• m-Dichlorobenzene [1,3-Dichlorobenzene]
 o-Dichlorobenzene [1,2-Dichlorobenzene]
 p-Dichlorobenzene [1,4-Dichlorobenzene]
• 3,3'-Dichlorobenzene
• 1,2-Dichloroethane
• 1,1-Dichloroethene [1,1-Dichloroethylene]
Dichloromethane [Methylene chloride]
• 1,2-Dichloropropane
• 1,3-Dichloropropene [1,3-Dichloropropylene]
• 2,4-Dimethylphenol
• Di-n-Butyl phthalate
• Ethylbenzene
• Fluoride
• Hexachlorobenzene
Hexachlorobutadiene

Hexachlorocyclopentadiene
Hexachloroethane
Methyl ethyl ketone
• Nitrobenzene
N-Nitrosodiethylamine
N-Nitroso-di-n-butylamine
 Nonylphenol
Pentachlorobenzene
Pentachlorophenol
• Phenanthrene
Polychlorinated biphenyls (PCBs)
• Pyridine
• 1,2,4,5-Tetrachlorobenzene
• 1,1,2,2-Tertachloroethane
Tetrachloroethene [Tetrachloroethylene]
• Toluene
• 1,1,1-Trichloroethane
• 1,1,2-Trichloroethane
Trichloroethene [Trichloroethylene]
• 2,4,5-Trichlorophenol
• TTHM (Total trihalomethanes)
Vinyl chloride
Table 4:
• Enterococci
Table 6:
Bromide
Color (PCU)
 Nitrate-Nitrite (as N)
• Sulfide (as S)
 Sulfite (as SO3)
Surfactants
Boron
Cobalt
Iron
Magnesium
Manganese
Molybdenum
Table 8:
Acrolein
Acrylonitrile
Benzene

Bromoform
• Chlorobenzene
Chlorodibromomethane
• Chloroethane
• 2-Chloroethylvinyl ether
Chloroform
Dichlorobromomethane [Bromodichloromethane]
• 1,1-Dichloroethane
• 1,2-Dichloroethane
• 1,1-Dichloroethylene [1,1-Dichloroethene]
• 1,2-Dichloropropane
 1,3-Dichloropropylene [1,2-Dichloropropene]
• Ethylbenzene
Methyl bromide [Bromomethane]
Methyl chloride [Chloromethane]
Methylene chloride [Dichloromethane]
• 1,1,2,2-Tetrachloroethane
Tetrachloroethylene [Tetrachloroethene]
• Toluene
• 1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]
• 1,1,1-Trichlorethane
• 1,1,2-Trichlorethane
Trichloroethylene [Trichloroethene]
Vinyl chloride